SPECIAL RESOURCES ISSUE

The Bay Area's Computer Magazine

December 11, 1989 • 64

MicroTimes™

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The 1990 Computer & Software Buyers Guide

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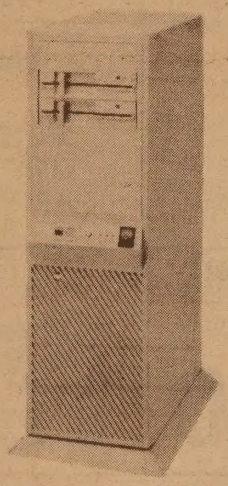

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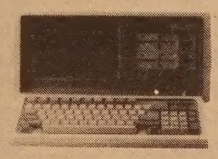

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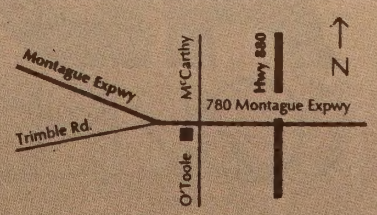

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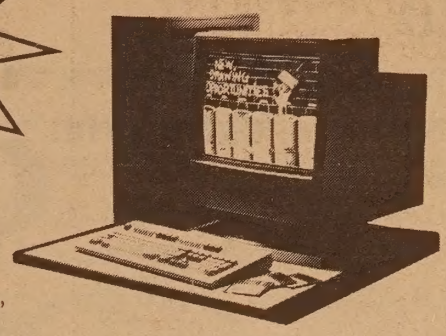

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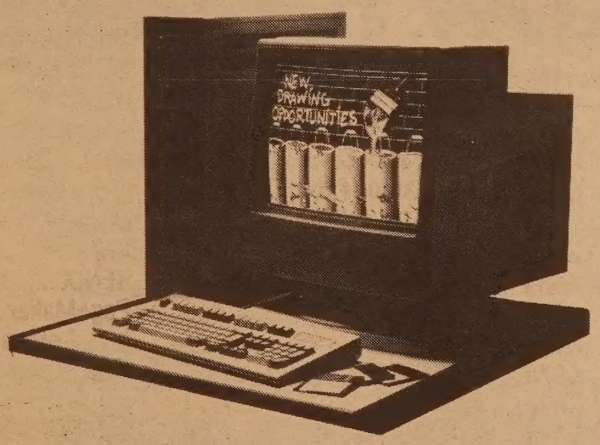

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MICROTIMES

The 1990 Computer & Software Buyers Guide

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The MicroTimes Southern California Reseller Guide

So you're in Emeryville and need to talk to a Novell specialist pronto? Or you're in Menlo Park with a Sad Mac and need repair service fast?

Well, help is on the way. Hundreds of resellers and computer dealers told us about their specialties, product lines, and resident experts, and we've gathered the information so you can use it as a year-round resource.

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The First Annual MicroTimes Semi-Free-For-All Writers' Poll

A diverse and opinionated lot, our writers and columnists hold forth on their favorite software and hardware products for 1989. Some will probably come as no surprise to anybody—apparently, to know the HP LaserJet II is to love it—but some undiscovered gems get their moment in the spotlight too.

BUYERS GUIDE

PC
Laptops **102, 106, 112**
Business **131, 134**
LANs **138, 140, 144**
Telecommunications **146, 150**
Storage **152, 156**
Graphics **160, 162, 16[illegible]70**

Macintosh
Graphics **172, 178**
Business **182, 186**
LANs **190, 192**
Storage **196, 20[illegible]**
Potpourri **204, 21[illegible]**

Amiga 226

DEPARTMENTS

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224 Index of Advertisers

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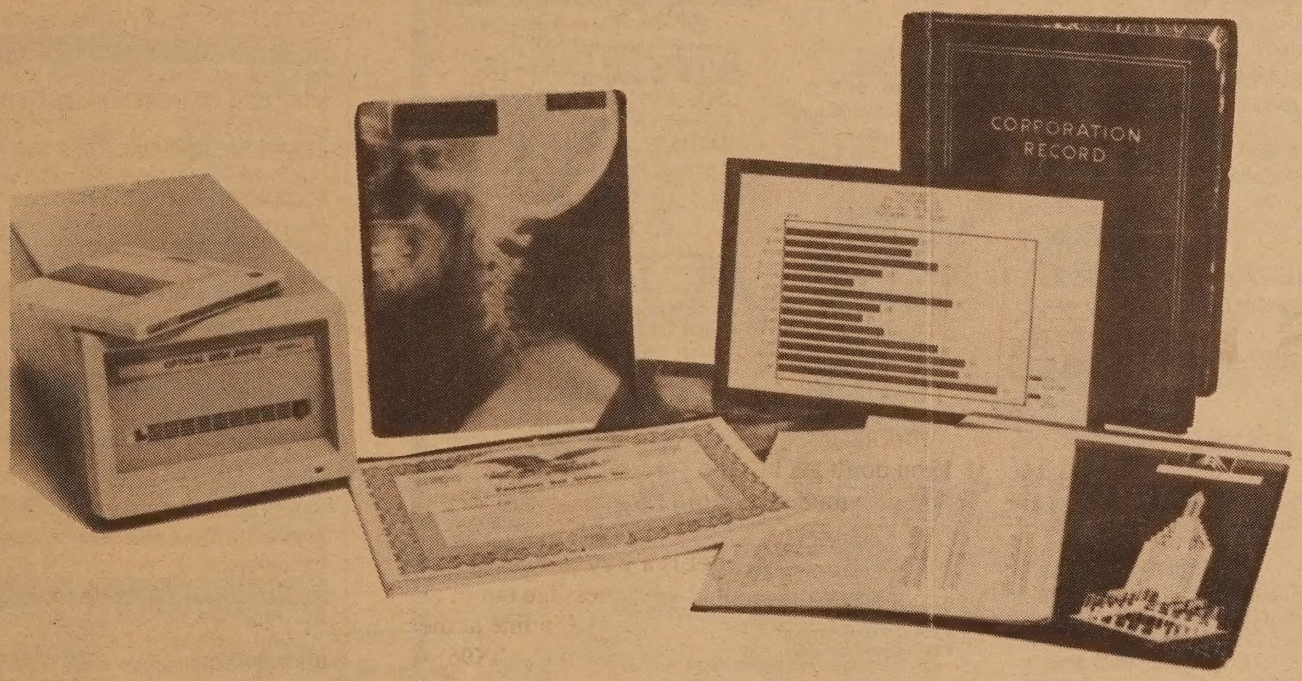

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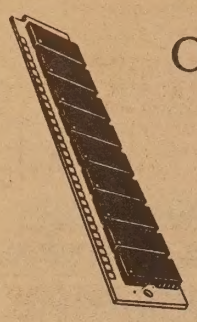

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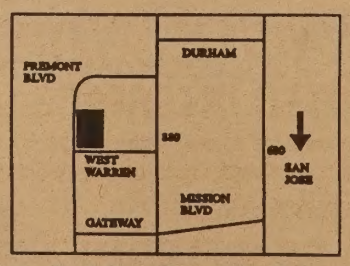

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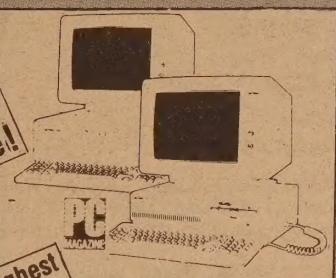

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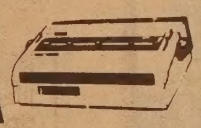

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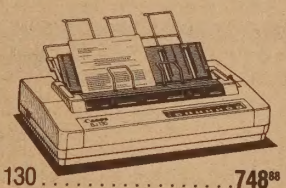

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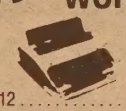

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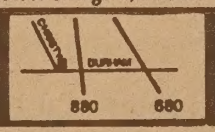

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December 12 Basic Macintosh Class. Fort Mason Center. Computer Alliance. Call: (415)771-1671.

December 12 Introduction To Adobe Illustrator Class. Fort Mason Center. Computer Alliance. Call: (415)771-1671.

December 12 How To Manage The Novell NetWare Operating System Class. Oakland. DataNet. Call: (415)465-9084.

December 12 SEF Meeting: Macintosh SIG. Cupertino. Software Entrepreneurs' Forum. Call: Tony Meadow, (415)644-9400.

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December 14 Installing NetWare 386 Class. Emeryville. DataNet. Call: (415)465-9084.

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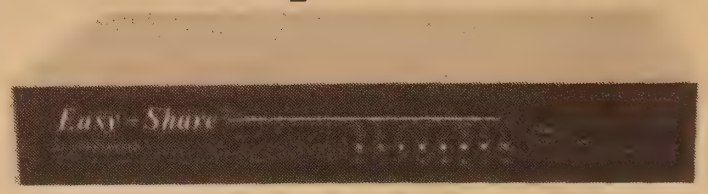

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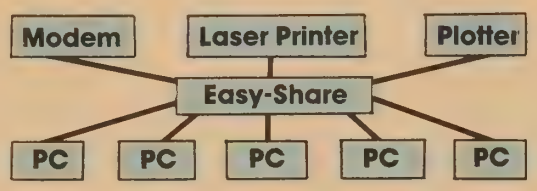

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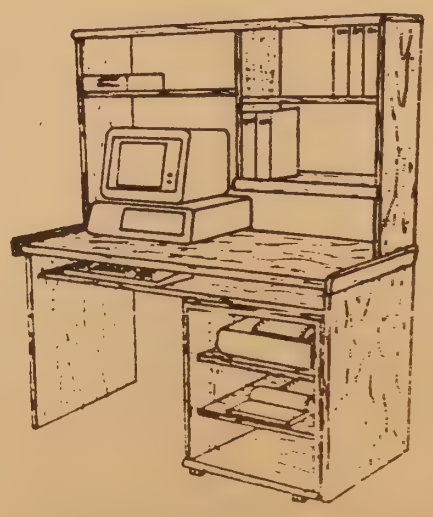

CALENDAR OF EVENTS *continued*

December 18–20 Introduction To X-Windows Class. Berkeley. Lurnix. Call: (415)433-9338.

December 18–19 Time Line 3.0 Workshop. San Francisco. Symantec. Call: (415)898-1919.

December 19 SEF Meeting: OOP SIG. Mountain View. Software Entrepreneurs' Forum. Call: Dean Ritz, (415)691-6727.

December 20 Basic Macintosh Class. Fort Mason Center. Computer Alliance. Call: (415)771-1671.

December 20 Word Part I Class. Fort Mason Center. Computer Alliance. Call: (415)771-1671.

December 20 DOS Basics: Using The PC Operating System. Oakland. DataNet. Call: (415)465-9084.

December 21 SEF Meeting: Micrographics, Windows, And OS/2. Palo Alto. Software Entrepreneurs' Forum. Call: Barbara Cass, (415)854-7219.

January 5 I-CUE Meeting: The Visual Almanac. Menlo Park. Computer Using Educators. Call: Bob Enenstein, (415)969-4679.

January 6 Installing Novell NetWare Local Area Networks Class. Oakland. DataNet. Call: (415)465-9084.

January 6 De Anza College Computer Mart. De Anza College. Call: (408)864-8581.

January 11–12 Time Line 3.0 Workshop. San Francisco. Symantec. Call: (415)898-1919.

January 12 PC Repair Class. Oakland. DataNet. Call: (415)465-9084.

January 13 How To Manage The Novell NetWare Operating System Class. Oakland. DataNet. Call: (415)465-9084.

January 18 EB CUE Meeting: Hypermedia. Berkeley. Computer-Using Educators. Call: Melissa Alden, (415)547-3763.

January 18 Installing NetWare 386 Class. Emeryville. DataNet. Call: (415)465-9084.

January 18 WordPerfect 5.0 Class. Oakland. DataNet. Call: (415)465-9084.

January 18-19 Second Annual Conference On Software Support. Burlingame. Institute For International Research. Call: (415)347-5444.

January 18–19 Time Line 3.0 Workshop. San Francisco. Symantec. Call: (415)898-1919.

January 19 Installing Novell NetWare Local Area Networks Class. Oakland. DataNet. Call: (415)465-9084.

January 20 Troubleshooting A Novell Network. Emeryville. DataNet. Call: (415)465-9084.

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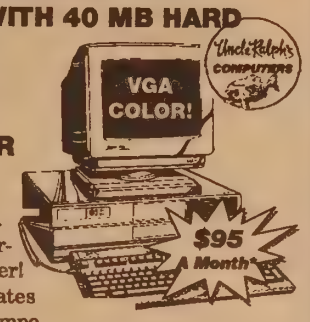

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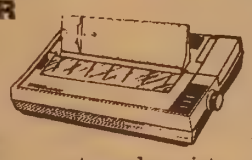

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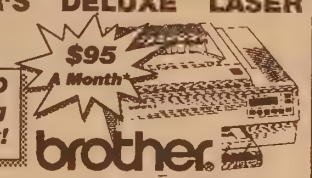

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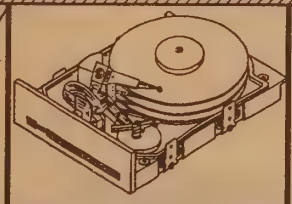

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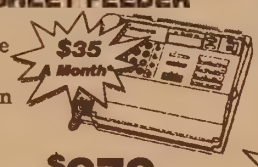

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8 port Arcnet Active HUB	**$169**
8 bit CompuLAN NE-1000 Compatible Card	**$109**
16 bit CompuLAN NE-2000 Compatible Card	**$159**
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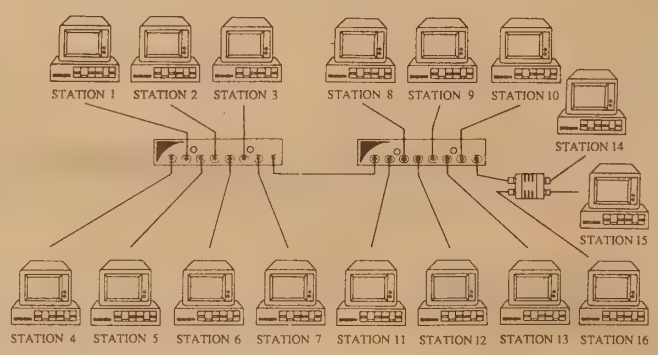

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CALENDAR OF EVENTS *continued*

January 22–23 Time Line 3.0 Workshop. San Francisco. Symantec. Call: (415)898-1919.

January 22–26 Winter 1990 USENIX Technical Conference. Washington, DC. USENIX: The Professional And Technical UNIX Association. Call: (714)588-8649.

January 23–25 International Conference On Wafer Scale Integration. San Francisco. IEEE Computer Society. Call: Joe E. Brewer, (301)765-1247.

January 23–26 Effective Skills For Technical Managers Course. San Francisco. Integrated Computer Systems. Call: John Valenti, (415)421-8166.

January 24 DOS Basics: Using The PC Operating System. Oakland. DataNet. Call: (415)465-9084.

January 24–26 Strategic Planning Course. San Francisco. Integrated Computer Systems. Call: (415) 421-8166.

January 25 Lotus 1-2-3 Class. Oakland. DataNet. Call: (415)465-9084.

January 25 NetWare 386 System Administrator Class. Emeryville. DataNet. Call: (415)465-9084.

January 25–26 The MacUser Marketing Conference. Burlingame. MacUser Magazine. Call: (415)234-6434.

January 26 How To Manage The Novell NetWare Operating System Class. Oakland. DataNet. Call: (415)465-9084.

January 27 PC Repair Class. Oakland. DataNet. Call: (415)465-9084.

January 30–February 2 Network Planning, Support, And Management Course. San Francisco. Integrated Computer Systems. Call: John Valenti, 1-800-421-8166.

January 30–February 2 Software Quality Assurance & Testing Course. San Diego. Integrated Computer Systems. Call: 1-800-421-8166.

January 31–February 2 Alliance 90 US–Japan High Technology Conference. Tokyo. DEFTA, Inc. Call: (415)424-0940.

February 1–3 Computers And Reading/Learning Difficulties Conference. Richmond. Computer-Using Educators. Call: Diane Frost or Gerald Block, (415)222-1249.

February 3 Installing Novell NetWare Local Area Networks Class. Emeryville. DataNet. Call: (415)465-9084.

February 5–6 Implementation Strategies For Integrating Expert Systems Into Mainstream Computing Seminar Series. San Diego. Decision Support Technology. Call: (617)354-6400.

February 5–9 6th International Conference On Data Engineering. Los Angeles. IEEE Computer Society. Call: (202)371-1013.

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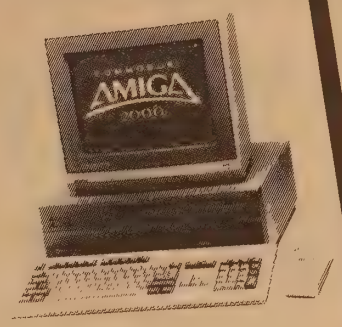

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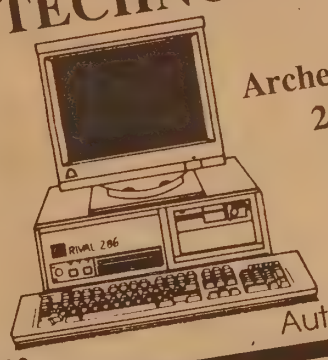

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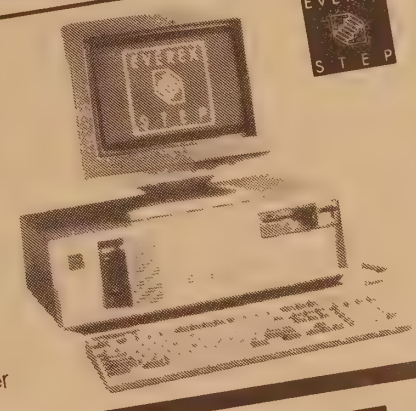

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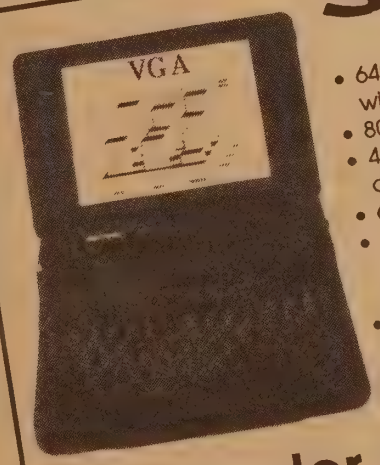

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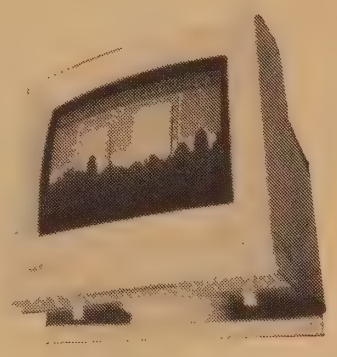

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CALENDAR OF EVENTS *continued*

February 6–9 BAST Workshop. Bodega Bay. IEEE Computer Society. Call: Edward McCluskey, (415)723-1451.

February 6–9 Software Development '90 Conference. Oakland. Software Development Seminars. Call: Cheryl How, (415)995-2471.

February 7–9 Product Planning & Evaluation Course. San Diego. Integrated Computer Systems. Call: 1-800-421-8166.

February 10 How To Manage The Novell NetWare Operating System Class. Emeryville. DataNet. Call: (415)465-9084.

February 12–15 Systems USA: The OEM Systems/ Subsystems Conference And Exposition. San Jose. American Electronic Association. Call: Anne Weber, (714)669-1201.

February 12–15 Systems/USA: The OEM Systems/ Subsystems Conference And Exposition. San Jose. American Electronics Association. Call: (408)987-4200.

February 13–16 Software Requirements & Design Specifications Course. San Francisco. Integrated Computer Systems. Call: John Valenti, (415)421-8166.

February 16 Installing NetWare 386 Class. Emeryville. DataNet. Call: (415)465-9084.

February 17 Installing Novell NetWare Local Area Networks Class. Emeryville. DataNet. Call: (415)465-9084.

February 18 Troubleshooting A Novell Network. Emeryville. DataNet. Call: (415)465-9084.

February 22–25 TED2 Communications Conference. Monterey. Technology Entertainment Design. Call: Bill Rosenzweig, (213)832-9396.

February 23 NetWare 386 System Administrator Class. Emeryville. DataNet. Call: (415)465-9084.

February 24 PC Repair Class. Emeryville. DataNet. Call: (415)465-9084.

February 26–March 2 IEEE Computer Society COMPCON Spring '90. San Francisco. IEEE Computer Society. Call: (202)371-1013.

March 27 DB/Expo '90. San Francisco. Norm De Nardi Enterprises. Call: (415)941-8440.

As a community service, MicroTimes *lists trade shows, seminars, and other special events in the Calendar of Events free of charge on a space-available basis. To improve the likelihood of your listing's timely inclusion, please make sure we have the necessary information no later than the first of the month, two months before the coverdate of the issue in which you'd like it to appear (i.e., the deadline for the March issue, distributed during February, is January 1). Send to: MicroTimes Calendar of Events, 5951 Canning St., Oakland, CA 94609.*

News about user group meetings and other regularly scheduled activities should be sent to User Group Network at the same address.

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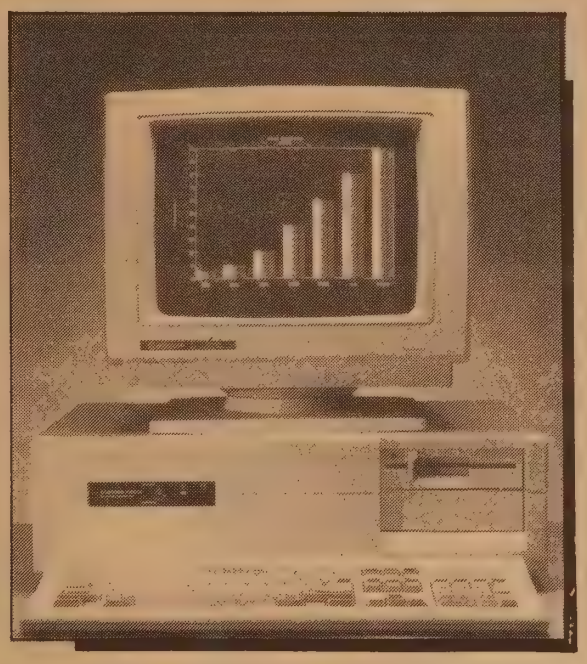

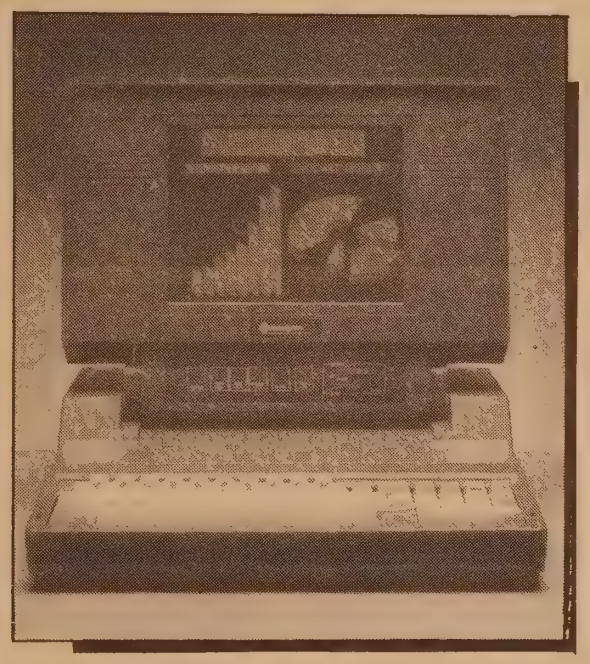

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w/42 MB Hard Disk (39 ms/MFM)	$809	$909	$949	$1,259	$1,309	$1,434	$1,609
w/80 MB Hard Disk (28 ms/MFM)	$1,069	$1,169	$1,209	$1,519	$1,569	$1,694	$1,869
386/16SX (1 MB)							
Basic System	$799	$899	$939	$1,249	$1,299	$1,424	$1,599
w/42 MB Hard Disk (39 ms/MFM)	$1,109	$1,209	$1,249	$1,559	$1,609	$1,734	$1,909
w/65 MB Hard Disk (28 ms/RLL)	$1,199	$1,299	$1,339	$1,649	$1,699	$1,824	$1,999
w/80 MB Hard Disk (28 ms/MFM)	$1,369	$1,469	$1,509	$1,819	$1,869	$1,994	$2,169
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Basic System	$1,099	$1,199	$1,239	$1,549	$1,599	$1,724	$1,899
w/42 MB Hard Disk (28 ms/MFM)	$1,419	$1,519	$1,559	$1,869	$1,919	$2,044	$2,219
w/65 MB Hard Disk (28 ms/RLL)	$1,499	$1,599	$1,639	$1,949	$1,999	$2,124	$2,299
w/80 MB Hard Disk (28 ms/MFM)	$1,669	$1,769	$1,809	$2,119	$2,169	$2,294	$2,469
386/25 (1 MB)							
Basic System	$1,199	$1,299	$1,339	$1,649	$1,699	$1,824	$1,999
w/42 MB Hard Disk (28 ms/MFM)	$1,519	$1,619	$1,659	$1,969	$2,019	$2,144	$2,319
w/65 MB Hard Disk (28 ms/RLL)	$1,599	$1,699	$1,739	$2,049	$2,099	$2,224	$2,399
w/80 MB Hard Disk (28 ms/MFM)	$1,769	$1,869	$1,909	$2,219	$2,269	$2,394	$2,569
w/100 MB Hard Disk (17 ms/ESDI)	$2,299	$2,399	$2,439	$2,749	$2,799	$2,924	$3,099
w/150 MB Hard Disk (17 ms/ESDI)	$2,499	$2,599	$2,639	$2,949	$2,999	$3,124	$3,299
386/25C (1 MB)							
Basic System	$1,599	$1,699	$1,739	$2,049	$2,099	$2,224	$2,399
w/42 MB Hard Disk (28 ms/MFM)	$1,919	$2,019	$2,059	$2,369	$2,419	$2,544	$2,719
w/65 MB Hard Disk (28 ms/RLL)	$1,999	$2,099	$2,139	$2,449	$2,499	$2,624	$2,799
w/80 MB Hard Disk (28 ms/MFM)	$2,169	$2,269	$2,309	$2,619	$2,669	$2,794	$2,969
w/100 MB Hard Disk (17 ms/ESDI)	$2,699	$2,799	$2,839	$3,149	$3,199	$3,324	$3,499
w/150 MB Hard Disk (17 ms/ESDI)	$2,899	$2,999	$3,039	$3,349	$3,399	$3,524	$3,699

386/33C Price Matrix	No Monitor/Card Included	VGA (14") 720 x 400 256 Colors	SYNC (14") 800 x 600 256 Colors	NEC 2A (14") 800 x 600 256 Colors	HIRES (14") 1024 x 768 256 Colors	HIRES (16") 1024 x 768 256 Colors	HIRES (20") 1024 x 768 256 Colors
386/33C (1 MB)							
Basic System	$2,399	$2,899	$3,024	$3,124	$3,199	$3,999	$5,399
w/42 MB Hard Disk (28 ms/MFM)	$2,719	$3,219	$3,344	$3,444	$3,519	$4,319	$5,719
w/65 MB Hard Disk (28 ms/RLL)	$2,799	$3,299	$3,424	$3,524	$3,599	$4,399	$5,799
w/80 MB Hard Disk (28 ms/MFM)	$2,969	$3,469	$3,594	$3,694	$3,769	$4,569	$5,969
w/100 MB Hard Disk (17 ms/ESDI)	$3,499	$3,999	$4,124	$4,224	$4,299	$5,099	$6,499
w/150 MB Hard Disk (17 ms/ESDI)	$3,699	$4,199	$4,324	$4,424	$4,499	$5,299	$6,699
w/340 MB Hard Disk (17 ms/ESDI)	$4,499	$4,999	$5,124	$5,224	$5,299	$6,099	$7,499
386/33C (4 MB)							
Basic System	$2,799	$3,299	$3,424	$3,524	$3,599	$4,399	$5,799
w/42 MB Hard Disk (28 ms/MFM)	$3,119	$3,619	$3,744	$3,844	$3,919	$4,719	$6,119
w/65 MB Hard Disk (28 ms/RLL)	$3,199	$3,699	$3,824	$3,924	$3,999	$4,799	$6,199
w/80 MB Hard Disk (28 ms/MFM)	$3,369	$3,869	$3,994	$4,094	$4,169	$4,969	$6,369
w/100 MB Hard Disk (17 ms/ESDI)	$3,899	$4,399	$4,524	$4,624	$4,699	$5,499	$6,899
w/150 MB Hard Disk (17 ms/ESDI)	$4,099	$4,599	$4,724	$4,824	$4,899	$5,699	$7,099
w/340 MB Hard Disk (17 ms/ESDI)	$4,899	$5,399	$5,524	$5,624	$5,699	$6,499	$7,899

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Paradise VGA Graphics Card (OEM)
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$1,199

80386-based 0 Wait State Motherboard
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Intel 32-bit 80386DX-20 CPU for 386/20 (True 20 MHz CPU)
Intel 32-bit 80386DX-25 CPU for 386/25 (True 25 MHz CPU)
1 MB RAM Standard (Expandable to 8 MB)
Chips & Technologies Chipset
Page interleaved memory controller
Shadow RAM Built-in
Choice of Teac 5.25" 1.2 MB or 3.5" 1.44 MB Floppy Drive
1:1 Dual Hard Disk/Dual Floppy Controller
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Desqview 386, and all 386-Specific Software
Landmark: 27.0 MHz/Norton: 23.0x (386/20 w/Interleave)
Landmark: 34.5 MHz/Norton: 29.7x (386/25 w/Interleave)

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386/33C MHz Basic System
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Proprietary PAL Cache Design
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Desqview 386, and all 386-Specific Software
Power Meter: 7.5 MIPS/Landmark: 55.0 MHz/Norton: 45.9x

286/12 Mhz Basic System
$499

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Real-time Clock/Calendar w/Battery Backup
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5-16 Bit & 3-8 Bit Expansion Slots
Enhanced 101-key Keyboard
Supports MS-DOS, XENIX, Novell, etc.
Landmark: 15.6 MHz/Norton: 15.3x

386SX/16 MHz Basic System
$799

80386SX-based 0 Wait State Motherboard
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Intel 16-bit 80386SX CPU
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Choice of Teac 5.25" 1.2 MB or 3.5" 1.44 MB Floppy Drive
Dual Hard Disk/Dual Floppy Controller
Real-time Clock/Calendar w/Battery Backup
Baby AT Case w/200 Watt UL Power Supply
80387SX Math Coprocessor Socket
6-16 Bit & 2-8 Bit Expansion Slots
Enhanced 101-key Keyboard
Supports MS-DOS, OS/2, XENIX, UNIX, Novell, Windows/386,
Desqview 386, and all 386-Specific Software
Landmark: 20.5 MHz/Norton: 18.7x

386/25C MHz Basic System
$1,599

80386-based 0 Wait State Motherboard
Phoenix BIOS w/CMOS Setup Built-in
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Proprietary PAL Cache Design
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1:1 Dual Hard Disk/Dual Floppy Controller
Real-time Clock/Calendar w/Battery Backup
Small Footprint Case w/200 Watt UL Power Supply
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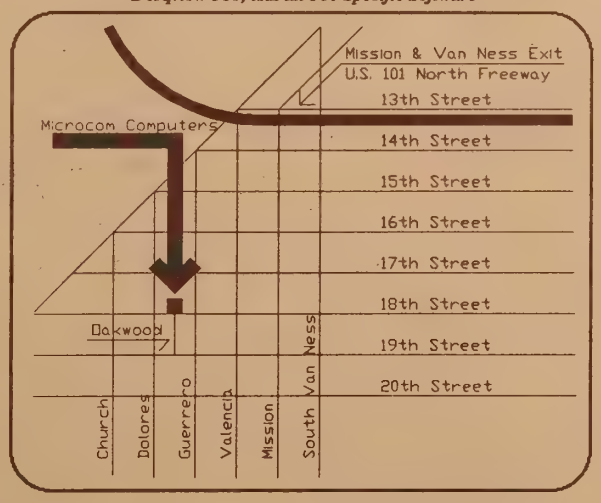

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The MicroTimes Northern California Computer Reseller Guide

Ever know what you wanted but not where to get it? Ever wish you could go straight to a shop with the right experts for your particular requirements, rather than fish around at a dozen different places?

If you want to set up a network in your office, you want to go some place that has NetWare experts; if you need a DTP workstation, you want to talk to people with expertise in electronic publishing; if business accounting is your requirement, you don't want to deal with a staff that's knowledgeable about anything but.

With that in mind, we put together a list of computer hardware and software resellers in California, sorted by region and indicating what fields they specialize in and who they have as resident experts in those fields.

This *MicroTimes* Computer Reseller Guide is the first of what will be an annual list of resellers. We offer it to you as a valuable resource for you to keep on hand in the months to come.

—MicroTimes editors

San Francisco

ADVANCED COMPUTER REPAIR

Store Manager: Kevin Kurtz
Address: 450 Alabama St.
City: San Francisco Zip: 94110
Phone: (415)554-0500 (voice); FAX 554-0503
Specialties:
Laser Printer Repair
IBM + Compatible Repair
Obsolete Models
Operating systems supported:
DOS
CP/M
OS/2
MacOS
ProDOS
In-house experts:
Mike Wilcox
Hao Tri To
Mike Nadelman
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Warranty service on many printers, service contracts, loaners

CHEUNG WELLS MESSEMER

Store Manager: Elaine Cheung
Address: 2132 Judah St.
City: San Francisco Zip: 94122
Phone: (415)665-6100
Specialties:
LANs
CAD/CAM
Accounting
Operating systems supported:
DOS
Best-selling product lines:
AST
COMPAQ
IBM
In-house experts:
Elaine Cheung
Janet Kamlin
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service contract, repair services, consulting and planning, custom database programming

COMPUTER GROCERY STORE

Store Manager: Steve
Address: 456 Montgomery St.
City: San Francisco Zip: 94104
Phone: (415)781-4992
Specialties:
Accounting Software
Software
Operating systems supported:
DOS
CP/M
OS/2
Best-selling product lines:
Data Spec
In-house experts:
Steve
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training

THE COMPUTER STORE

Store Manager: Don Cheung
Address: Geary Blvd. at 14th Ave.
City: San Francisco Zip: 94118
Phone: (415)387-7272; FAX 387-1949
Other store locations: Mountain View, Sacramento
Specialties:
LANs
Desktop Publishing
Accounting/Database Management
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Optima
In-house experts:
Don Cheung
Andy Wang
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
In-store classes, free tech support

COMPUTOWN

Store Manager: Rashid Nasim
Address: 760 Market St. #219
City: San Francisco Zip: 94102
Phone: (415)956-8696
Other store locations: 2444-A Old Middlefield Way, Mountain View, CA 94523; 1527 Contra Costa Blvd., Pleasant Hill, CA 94523
Specialties:
CAD Systems (AutoCAD)
Novell Network
Desktop (Ventura/Pagemaker)
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
AST/Lotus
EPSON/Novell 26
AutoCAD
In-house experts:
Waseem Mohammad (Auto CAD)
Rashid Nasim (Novell)
Imran B. (Desktop)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site warranties, service, repair, delivery/installation, training, one-year warranty, extended service contracts

DIRECT SOFTWARE, INC.

Store Manager: Elaine Lew
Address: 1032 Irving St., Ste. 513
City: San Francisco Zip: 94122
Phone: (415)347-1590
Operating systems supported:
DOS
MacOS
Best-selling product lines:
Peripheral Land
Hayes
Adobe
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Telephone support, basic installation, manufacturers warranty

EASI COMPUTER SYSTEMS

Store Manager: L. Louis Chou
Address: 6221 Geary Blvd. #228
City: San Francisco Zip: 94121
Phone: (415)752-1628
Specialties:
Accounting
Retail P.O.S.

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386-25 MHz 64K Cache System

- Intel 25 MHz CPU, 64K Cache exp. to 128K
- Landmark=43, MIP=6.2
- 1 MB exp. to 8 MB on board
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- Serial, Parallel, Game Port
- 101 Keyboard
- Teac 1.2 MB or 1.44 MB Floppy Drive

$1799

386-25 MHz System

- Intel 25 MHz CPU
- 1 MB RAM on board
- Hard/Floppy Controller (1:1)
- Teac 1.2 MB or 1.44 MB Floppy Drive
- Serial, Parallel, Game Port
- 101 Keyboard

$1185

386-20 MHz System

- 20 MHz board with 20 MHz CPU
- 1 MB RAM on board
- Hard/Floppy Controller (1:1)
- Teac 1.2 MB or 1.44 MB Floppy Drive
- Serial, Parallel, Game Port
- 101 Keyboard

$1049

386-SX 16 MHz System

- Intel 386-SX CPU
- 1 MB RAM on board, Landmark=21.6
- Hard/Floppy Controller (1:1)
- Teac 1.2 MB Floppy
- Serial, Parallel, Game Port
- 101 Keyboard

$805

Super Fast 286-20 MHz Neat System

- True 20 MHz Harris CPU
- C&T (Neat) 20 MHz Chip Set
- EMS; LIM 4.0; Landmark=26
- 512K exp. to 8 MB on board; Inlerleaved Memory
- 1.2 Floppy Drive; HD/FD Controller
- Serial, Parallel, Game Port
- 101 Keyboard

$775

286-16 MHz System

- 512K RAM on board
- Hard/Floppy Controller
- 1.2 Floppy Drive
- Serial, Parallel, Game Port
- 101 Keyboard

$689

Turbo 10 MHz Complete System

- DTK 10 MHz Turbo Motherboard
- 256K RAM exp. to 640K
- MGP/Mono Monitor
- 84 Keyboard • 360K Floppy Drive

$379

286-12 MHz System

- 512K RAM
- 1.2 Floppy Drive
- Hard/Floppy Controller
- Serial, Parallel, Game Port
- 101 Keyboard

$529

Disk Drives

Teac 360K/1.2K	$65/75
Teac 720K/1.44K	69/79
Toshiba 720K/1.44K	68/78
Fujitsu 360K/1.2K	60/72

Monitors

Mono (Samsung 12″)	$75
Mono (14″ Flat)	105
Samsung Color Hi-Res.	219
EGA (Samsung 14″)	315
Everex VGA	369
Hyundai VGA	310
MultiSync (Samsung)	415
MultiSync (Relysis)	435
(NEC 2A 3D)	495/645

Keyboards

102 Key with Cherry Key Switch	$53
Keytronic 101 Key	48
Mitsumi 101 Key	42
Enhanced 101 Key	38

Add-On Boards

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Everex EGA with PP	105
VGA-16 Bit Paradise OEM	165
Orchid ProDesigner VGA-16 Bit	225
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XT Multi I/O	39
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Floppy Controller (360K)	16
XT-H/D Controller WD-Gen	50
WA3 FD/HD Controller	85
DTC 7280 MFM FD/HD (1:1) interleave	125
DTC 7287 RLL FD/HD (1:1)	139

Modems/Fax Cards

Everex 1200 Baud (int)	$54
Everex 2400 Baud BD MNP (ext)	198
Everex 2400 Baud BD MNP (int)	169
CEI 9600 BPS Fax Card	395
CEI Pocket Modem	Call Now!

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Okidata 320	$345
Okidata 321	459
Okidata 390	485
Okidata 391	650
Panasonic KX-1180	Sale 170
Panasonic KX-1191	225
Panasonic KX-1124	Sale 290
Panasonic KX-1524	519
Star NX-1000	165
Star NX-1000 Color	215
Star NX-15	320
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386-Various Make/Speed
286-10,12,16,20 Neat
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Miscellaneous

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Toshiba 44/66 MB	399
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Miniscribe (40M)	268

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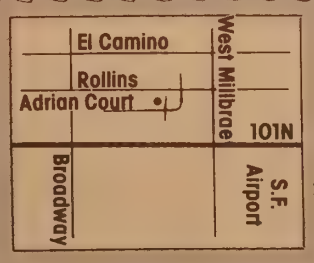

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102705-001	286 Multipurpose Cont.	79.00
102776-002	84 Key Deskpro 286 Keyboard	69.00
104174-001	8 MHz 286 Multi. FD Cont.	95.00
106374-001	Deskpro Sys. Bd. Ver. 3	119.00
106434-001	8 MHz 286 Sys. Bd. Ver. 2	159.00
106707-001	12 MHz 286 System Bd.	169.00
108067-001	101 Key Enhanced Keyboard	75.00
113446-001	12 MHz 286 Multi. FD Cont.	95.00

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Store Manager: Dennis David
Address: 701 Market St.
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Phone: (415)546-7535
Specialties:
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Programming Languages
MIDI Software
Operating systems supported:
DOS
OS/2
MacOS
ProDOS
Best-selling product lines:
Microsoft
Lotus
Word Perfect
In-house experts:
Dennis David
Ed Gore
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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EGGHEAD SOFTWARE

Store Manager: Dave Greenlee
Address: 369 Pine St.
City: San Francisco Zip: 94104
Phone: (415)392-6397
Specialties:
Word Processing
Database
Spreadsheets
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Lotus
Ashton-Tate
Borland
In-house experts:
Sheryl Fishell
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, liberal return policy, evaluations, on-site company demos

HYPER COMPUTER

Store Manager: Pandora
Address: 2826 Geary Blvd
City: San Francisco Zip: 94118
Phone: (415)567-8282
Other store locations: Milpitas
Specialties:
Novell
Operating systems supported:
DOS
CP/M
OS/2
UNIX/XENIX
Best-selling product lines:
LCD Portable Computer
Everex
VGA Enhancer
In-house experts:
Pandora
Jimmy
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training

J.C. LUKRICH & CO., CPAS

Store Manager: Robert Scott
Address: 284 Connecticut St.
City: San Francisco Zip: 94107
Phone: (415)864-6770
Other store locations: 238 Texas St., San Francisco
Specialties:
Accounting
Financial
Networking
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Computer Assoc./ACCPAC
Great Plains/PC-MAC
Solomon III
In-house experts:
J.C. Lukrich
Robert Scott
Leigh Alexander
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Installation, full implementation, training, on-site and phone support, free needs and requirements assessment

MICROCOM COMPUTERS

Store Manager: Henry Wong
Address: 3650 18th St.
City: San Francisco Zip: 94119
Phone: (415)255-2288
Specialties:
Desktop Publishing
CAD
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Microcom Computers
Seagate
Panasonic
In-house experts:
Rex Wong
Henry Wong
Ernest Lau
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, technical support, warranties, guarantees, repairs, toll-free number

MICROLINK SYSTEMS, INC.

Store Manager: Dennis Kuei
Address: 4721 Geary Blvd.
City: San Francisco Zip: 94118
Phone: (415)750-0650
Other store locations: 1800 Wyatt Dr. #4, Santa Clara, CA 95054
Specialties:
Portable Computers
386 VGA Systems
Desktop Publishing
Operating systems supported:
DOS
CP/M
OS/2
UNIX/XENIX
Best-selling product lines:
Microlink
In-house experts:

25 MHz 386

- Landmark-30.5
- 1 MB RAM on Board (expandable to 6MB)
- 1.2 MB Floppy Drive
- FD & HD Controller
- 101 Enhanced Keyboard
- 230 Watt Power Supply
- Socket for 387 & 287 Math Co-processors

$1149

20 MHz 386

- Landmark-26.5
- 1MB RAM On Board (expandable to 6 MB)
- 1.2 MB Floppy Drive
- FD & HD Controller
- 101 Enhanced Keyboard
- 200 Watt Power Supply
- Socket for 387 & 287 Math Co-processors

$1049

16 MHz 386

- Landmark-20.5
- 1MB RAM on Board (expandable to 4MB)
- 1.2 MB Floppy Drive
- FD & HD Controller
- 101 Enhanced Keyboard
- 200 Watt Power Supply
- Socket for 387SX Math Co-processors

$769

16 MHz 286

- Landmark-20.5
- 512K RAM on Board (expandable to 4MB)
- 1.2 MB Floppy Drive
- FD & HD Controller
- 101 Enhanced Keyboard
- 230 Watt Power Supply
- Socket for 287 Math Co-processors

$549

12 MHz 286

- Landmark-16
- 512K RAM On Board (expandable to 4 MB)
- 1.2 MB Floppy Drive
- FD & HD Controller
- 101 Enhanced Keyboard
- 200 Watt Power Supply
- Socket for 287 Math Co-processors

$509

10 MHz 8088

- 256K RAM On Board (expandable to 640K)
- 360 Floppy Drive
- Floppy Drive Controller
- 84 Key Keyboard
- 150 Watt Power Supply

$289

SYSTEM OPTIONS

	MONO		14"	14"		MULTISYNC	
	12" 720x350	14" 720x350	COLOR 640x200	EGA 640x350	VGA 720x400	SAMSUNG 800x600	NEC3D 1024x768
8088 Turbo System	399	419	531	729	794	879	1089
286-10 MHz System	659	679	789	961	1066	1141	1349
286-12 MHz System	669	689	799	971	1076	1151	1359
286-16 MHz System	695	725	829	1011	1121	1211	1421
286-20 MHz System	799	819	929	1061	1166	1241	1449
386-16 MHz System	915	945	1049	1222	1422	1422	1632
386-20 MHz System	1199	1229	1333	1499	1609	1699	1989
386-25 MHz System	1299	1329	1433	1599	1709	1799	2089

HARD DISK

- 20 MB .....+185
- 30 MB .....+200
- 40 MB .....+305
- 60 MB .....+370
- 80 MB .....+530

Mother Boards

- 386-25 0 Wait (w/o CPU).....$420
- 386-20 0 Wait (w/o CPU).....390
- 386-16 0 Wait 340
- 286-20 0 Wait 319
- 286-16 0 Wait 259
- 286 6/12 0 Wait 170
- 286 6/10 0 Wait 150
- DTK 8088 10 MHz 68
- DTK 8088 8 MHz 67

Keyboards

- Mitsumi 101 Keyboard $39
- Keytronic 101 Keyboard.....48
- 5060 84 Key Keyboard 35
- BTC 5339 Keyboard 39

Monitors

- Samsung 12" Amber Monitor....$69
- Samsung 14" Mono Monitor 95
- Samsung Color RGB/EGA 199/310
- Nanao 8060S.....545
- Nanao 9070S.....940
- NEC Multisync 2A 499
- NEC Multisync 3D 610
- Relysis Multisync 425
- Relysis VGA Monitor.....340
- Seiko CM 1430 (1024x768) 539

Fl. & Hard Disk Controller

- Floppy Controller 360/720 .....$17
- FL. Cont 360/720/1.2/1.44.....35
- XT HD Cont MFM/RLL 50/60
- DTC 7280.(1 to 1 MFM) 99
- DTC 7287 (1 to 1, RLL) 129
- Everex (1 to 1 MFM) 89
- WA3 FD/HD.....80

Miscellaneous

- XT MIO Card $40
- AT MIO Card 38
- XT Case 22
- XT Case (AT Style) 32
- AT Case 50
- AT Mini Case 45
- Stand-Up Case w/Power Supply 125/179
- Serial Mouse 43
- Logitech Mouse 65
- 1200 Baud Modem Int/Ext 57/65
- 2400 Baud Modem Int/Ext ..90/130
- Everex Internal 1200/2400 ..65/125
- DOS 3.3 65
- DOS 4.01 65

Printers

- Star NX1000 .....$163
- Star NX1000 Rainbow 215
- Panasonic 1180 175
- Panasonic 1191 218
- Panasonic 1124 298
- Panasonic 1595 425
- Panasonic Laser 1299

Video Cards

- Monographic Card $29
- Monographic Printer Card 39
- Color Graphic Card.....39
- Paradise VGA Plus 150
- Paradise VGA Plus 16 180
- VGA Card 160
- EGA Card 95
- EGA Printer Card 85

Power Supplies

- 150 Watt Power Supply $36
- 200 Watt Power Supply 48
- 230 Watt Power Supply 50

Chips

- 8087-2 (8 MHz) $130
- 8087-1 (10 MHz) 145
- 80287-8/10 .....194/218
- 80387-16/20 .....340/360
- 80386-16/20 .....165/225
- 64-15/12 .....1.5/2.5
- 256-15/12 .....2.5/2.7
- 256-10/8 .....3.0/3.8

Floppy Drives

- Fujitsu 360KB/1.2 MB $57/72
- Teac 360KB/1.2 MB 62/74
- Teac 3.5" 720 KB/1.44MB 68/78
- Toshiba 3.5": 720 Kb/1.44 MB 68/78

Seagate Hard Disks

- ST-225 .....$190
- ST-225 Kit 240
- ST-238 210
- ST-238 Kit 260
- ST-251 (40 MB, 40 ms) 305
- ST-251-1 (40 MB, 28ms) 319
- ST-4096 (80 Mb, 28ms) 545
- Toshiba 66 MB 395
- Maxtor .....Call

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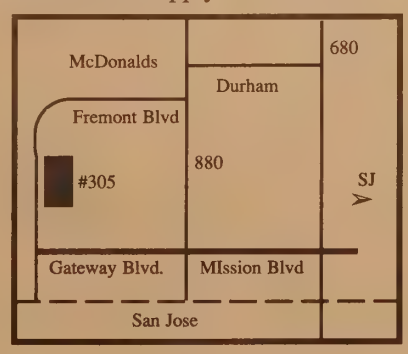

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The tools you need to make a great idea fly.

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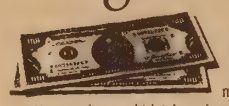

Ideas really take off when they're expressed using Apple Desktop Media™ and an Apple® Macintosh® computer. An idea can be expressed in a variety of media—via print materials, slides, or live presentations. You can choose which is best, depending on your message and audience—all with the point and click simplicity that made Macintosh famous.

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3.5 inch 1.44 MB Disks For Only One Dollar!

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How is this possible? Have you ever tried to format a regular double density 3.5 inch disk to 1.44 MB? As you probably know, the computer gives you an *invalid media error.* We wondered about the difference between the disks. They were torn apart and analyzed. No difference was found! Yet, they would not format. When we examined the disk's plastic housing, there was the difference. Not in the disk media, but in the plastic case!

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Here is our offer. Purchase our DiskDoubler for $39.95. If you are not completed satisfied, return the DiskDoubler tool within 14 days. You will receive a full refund (less shipping)! For best results, we recommend that you use reliable, brand name double sided, double density disks. *We also offer specially manufactured disks guaranteed to format to a high density format at prices well below a dollar each, even in small quanities! Details enclosed with the Disk Doubler!*

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Shipping _____
Sales Tax _____
Total _____

Name _____
Address _____
City _____ State _____ Zip _____

Street address required for UPS delivery. Add $3.00 for shipping. California residents add sales tax.
Please send check payable to Innovative Products & Services Company.

Eugene Lai
Tony Chen
Thomas Peng

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MICROMENDERS

Store Manager: Boku Kodama
Address: 81 Lansing St.
City: San Francisco Zip: 94105
Phone: (415)543-0500
Specialties:
Novell LAN
Accounting Software
Hardware Services
Operating systems supported:
DOS
Best-selling product lines:
AST
Toshiba
Epson
In-house experts:
Dave Sperry
Brent Hernandez
Sabrina Rone
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Hardware services and repair, after sales support, warranties

NEECO, INC.

Store Manager: Steven Wright
Address: 110 Sutter St.
City: San Francisco Zip: 94104
Phone: (415)781-3030
Other store locations: Fremont, Cerritos, Culver, El Toro, Cypress
Specialties:
LANs
Attorneys
Government
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
IBM
Compaq
AST
In-house experts:
Steve Yip (LANs)
Kerin Phelin/Joan Damblach (Attorneys)
Vee Masuessi/Brent Mineer (Government)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Special custom configuration, consultation, full service dept.

OMNI PRO SYSTEMS, INC.

Store Manager: Holly Mauranges
Address: 1301 6th St.
City: San Francisco Zip: 94107
Phone: (415)255-1121
Other store locations: This is a manufacturing and warehousing facility
Specialties:
PC Compatible Systems, hardware only: 386 Systems, 33,25,20 MHz, sx 286 Systems: 12, 16 MHz
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
OmniPro
In-house experts:
Mara Seney, Production Manager
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service-oriented, fast turnaround on RMAs, excellent tech. support, one-year warranty—parts and labor, on-site service available

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Store Manager: Kathleen McMahon
Address: 1450 Chestnut St., Ste. 102
City: San Francisco Zip: 94123
Phone: (415)673-0802
Specialties:
Database Recall
Shipping Manifest. Systems
Management Reports
Operating systems supported:
DOS
CP/M
OS/2
Best-selling product lines:
Ship-It II
In-house experts:
Kathleen
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Tech support, BBS

SPW COMPUTER

Store Manager: Sophia Wu
Address: 120 Burrows St., Suite A
City: San Francisco Zip: 94134
Phone: (415)467-2123
Specialties:
LANs
Operating systems supported:
DOS
CP/M
OS/2
UNIX/XENIX
Best-selling product lines:
DFI Handy Scanner
Turbo XT
In-house experts:
Sophia
Peter
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support

SANTRON COMPUTER

Store Manager: Linda Chang
Address: 1510 Noriega
City: San Francisco Zip: 94116
Phone: (415)753-3559
Other store locations: 1590 Oakland Rd., Ste. B105, San Jose, CA 95131, (408)452-0936
Specialties:
Novell
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Gas Plasma Portable
386, 286 Systems
In-house experts:
Austin
Irene
Linda
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service

SOFTWARE ENGINEERING

Store Manager: Albert
Address: 657 Mission St., 3rd Floor
City: San Francisco Zip: 94105
Phone: (415)957-0111
Specialties:
Engineering Software
Artisoft LAN

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Z-NIX Mouse	$40	Everex 40MB Floppy Tape	$220
Omti 1:1 Controller	$65	MS-DOS 3.21	$35

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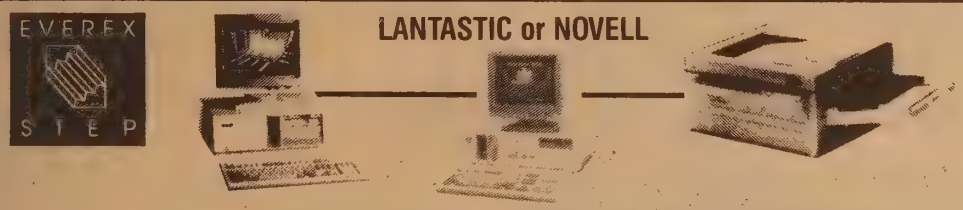

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STEP 386/16is	17.6	3.2	21.0
STEP 286/20	23.0	4.2	27.4
STEP 286/16	18.0	3.2	21.0
STEP 286/12	13.7	2.5	15.7

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T-5200 ..... $4930
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- NEC
- Mitsubishi
- Sony
- Everex

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Operating systems supported:
DOS
CP/M
OS/2
TOS
ProDOS
UNIX/XENIX
Best-selling product lines:
All Chargecard
Hauppauge MB
Brandname Clones
In-house experts:
Albert
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free catalog and newsletter, service, training center, 30-day money-back guarantee

SOLUTIONWARE

Store Manager: Walter Prukschool
Address: 1875 Mission St.
City: San Francisco Zip: 94103
Phone: (415)621-4496
Specialties:
LANs
PC-AT
Multi-user P/C
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
AT Clone
AST Research
Tandon
In-house experts:
Walter Prukschool
Waymon Lau
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, consulting, installation, maintenance, configuration design, system integration

SYSTEM MASTERS CO.

Store Manager: Lance Low
Address: 1094 Revere Ave. A13
City: San Francisco Zip: 94124
Phone: (415)822-3779
Specialties:
Novell
Multi-user acct.
Point of Sale
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
25 MHz 386
16 MHz 286
20 MHz 386
In-house experts:
Zeify
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Experienced Novell Network experts. Complete system training, and support. Full line of 286 and 386 server and workstations.

SYSTEMS WORKS

Store Manager: Alexis Benioff
Address: 625 Third St., 2nd Fl.
City: San Francisco Zip: 94107
Phone: (415)777-1999
Specialties:
Accounting
LANs
Custom Applications
Operating systems supported:
DOS
CP/M
Best-selling product lines:
AST
Toshiba
Arev/Reveille
In-house experts:
Alexis Benioff
Systems Works team
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Depot and on-site repair, long-term maintenance contracts, AST service center, software installation, training, support, modification, and development

TEK COMPUTERS

Store Manager: Moin
Address: 22 Third St.
City: San Francisco Zip: 94103
Phone: (415)243- TEKS
Other store locations: 2740 El Camino Real, Santa Clara, CA 95051
Specialties:
Desktop Publishing
Operating systems supported:
DOS
CP/M
OS/2
UNIX/XENIX
Best-selling product lines:
Apple
HIMS
IBM PS/2
In-house experts:
Everyone
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Hourly computer time rental (SF only)

Marin And North

COMPUTER CRAFT

Store Manager: Tim Meadows
Address: 1300 4th St.
City: San Rafael Zip: 94901
Phone: (415)454-3600
Other store locations: Walnut Creek, Palo Alto, San Jose, Monterey, Reno-Nevada
Specialties:
Desktop Publishng
Educational
Business applications
Operating systems supported:
DOS
OS/2
MacQS
ProDOS
Best-selling product lines:
Apple
IBM
Zenith laptops
In-house experts:
Paul Miller and Don Strickler
Larry Butti
Chris Coscia
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site and carry-in service, training, telephone hardware and software support, 30-day no-hassle return policy, extended warranties

COMPUTERTIME

Store Manager: Fred Sheppard
Address: 999 Anderson Dr.
City: San Rafael Zip: 94901
Phone: (415)459-8080
Specialties:
AutoCAD
Networking
Operating systems supported:
DOS
Best-selling product lines:
AST
Everex
Toshiba
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Rentals, training and support, service, compatibility guarantee

DESC SOFTWARE

Store Manager: Janet Daru
Address: 501 "B" St.
City: San Rafael Zip: 94901
Phone: (415)453-7119/1-800-688-DESC
Specialties:
Educational Software
Laser 128 Computers
All types of software
Operating systems supported:
DOS
ProDOS
Best-selling product lines:
Brøderbund
Learning Co.
Davidson & Assoc.
In-house experts:
Janet Daru
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Helpful service, defective disks exchanged up to 14 days

DISCOUNT MICROWORLD

Store Manager: Tyrone McGuinness
Address: 68 Paul Dr., Suite C
City: San Rafael Zip: 94903
Phone: (415)492-8890/(800)225-3034
Specialties:
Accounting/LANs
Desktop Publishing
Programming/Database Vertical Markets
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Toshiba
NEC
Microsoft
In-house experts:
Tyrone McGuinness
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Special program applications with discounts

HAWTEK CORPORATION

Store Manager: John Hawkins
Address: PO Box 6476
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Phone: (415)491-HAWK
Specialties:
Accounting
LANs
Database applications
Operating systems supported:
DOS
Best-selling product lines:
Everex
SBT Accounting
Novell
In-house experts:
John Hawkins
Jeanne Banfield
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Custom programming, complete turn-key solutions, nationally known experts.

HELLMAN'S MARIN COMPUTER CENTER

Store Manager: Jeff Hellman
Address: 888 Fourth St.
City: San Rafael Zip: 94901
Phone: (415)453-7924
Specialties:
Desktop Publishing
LANs
CAD
Operating systems supported:
MacOS
Best-selling product lines:
Macintosh
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Sales, service, support

THE MAC GARDEN

Store Manager: Chet Zdrowski
Address: 1031 "C" St.
City: San Rafael Zip: 94901
Phone: (415)457-1952
Specialties:
Desktop Publishing
Color Applications
General Mac Business and Graphics
Operating systems supported:
MacOS
Best-selling product lines:
GCC
Radius
SuperMac
In-house experts:
Brad Engstrand
Greg
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training classes, support, service

MICROAGE OF MARIN

Store Manager: Jerry Van Atta
Address: 100 Pelican Way, Suite 150
City: San Rafael Zip: 94901
Phone: (415)453-5900
Specialties:
Accounting
CAD
Multi-user Systems
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
IBM
COMPAQ
AT&T
In-house experts:
Jerry Van Atta (Accounting)
Henry LaPorta (CAD)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Hardware service and contracts, hotline support, training

East Bay

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Store Manager: Kim Ellison
Address: 931 "A" St.
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Specialties:
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System Utilities

JDR Microdevices

VISA MasterCard

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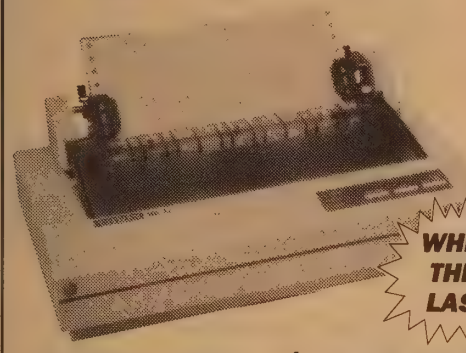
SUN. DEC. 17: 10 A.M. TO 6 P.M.
MON.-FRI. DEC. 18-22: 9 A.M. TO 9 P.M.
SAT. DEC. 23: 9 A.M. TO 9 P.M.

SURPRISE SOMEONE AND SAVE!

CITIZEN



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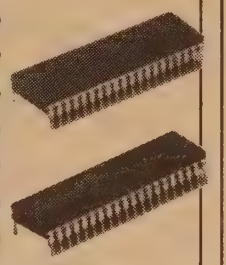

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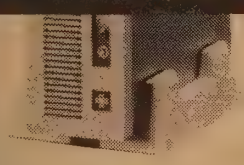

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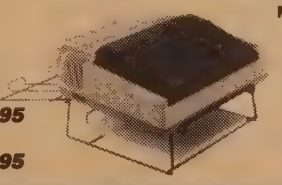

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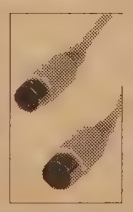

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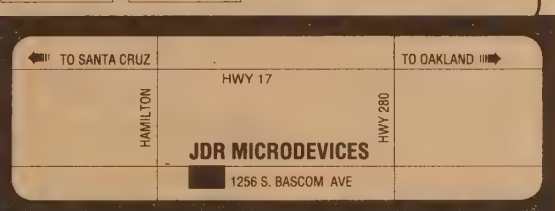

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AGI
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Wes Adams
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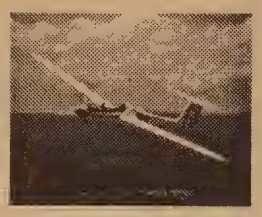

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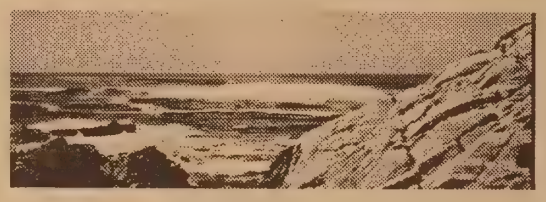

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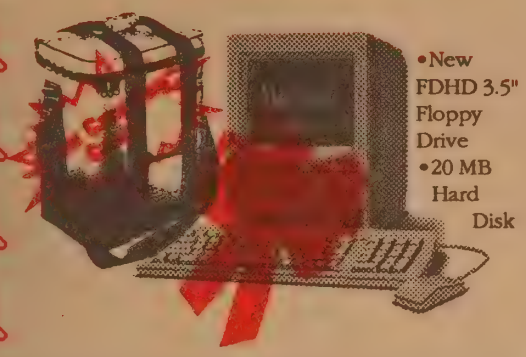

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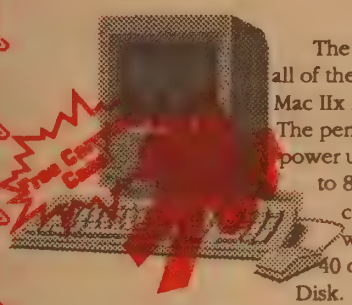
Macintosh SE/30



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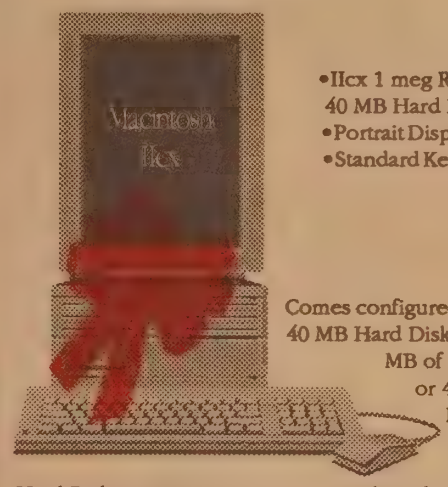
Macintosh II cx

Lease me for 137.40 a month†

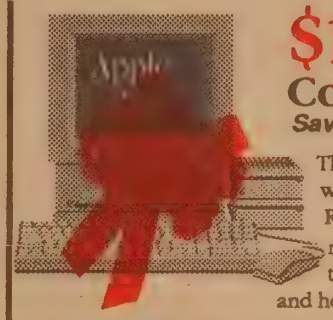


•IIcx 1 meg RAM
40 MB Hard Disk
•Portrait Display
•Standard Keyboard

Comes configured with a 40 MB Hard Disk and 1 MB of RAM, or 4 MB of RAM and an 80 MB Hard Disk, or customize your system based on the IIcx without a Hard disk. Available for lease or purchase. Please call for the best price.

Apple® II GS

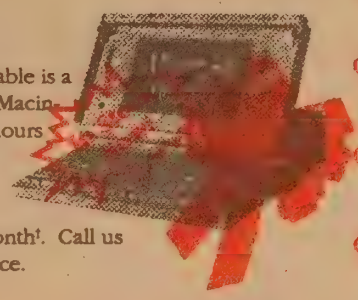
$1649*
Complete
Save over $700!



The II GS now comes with 1 Megabyte of RAM ! And it still runs the most and the best educational and home software.

*Price includes CPU, Keyboard, 3.5" drive, 5.25" drive, mouse and RGB Monitor, after Manufacturers $150 Rebate with purchase of a qualifying peripheral.

Macintosh• Portable



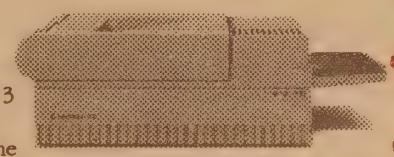
The new Macintosh•Portable is a fully functional Macintosh with 6-12 hours of rechargable battery life. Lease for only **$152.46** per month†. Call us for purchase price.

Macintosh Plus

$999*

The Macintosh Plus is the entry level Macintosh with plenty of power for virtually all of the Business Applications. *After manufacturers $200 rebate with purchase of qualifying peripheral.

LaserWriter II

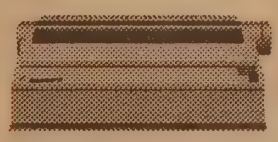


Apple gives you 3 ways to make great images. The LaserWriter II series is upgradable & reliable. The NT and the NTX are PostScript™ printers.

LaserWriter II SC ..... $1999 Save $800
LaserWriter II NT..... $3499 Save$1500
LaserWriter II NTX...$4899 Save $2100

ImageWriter® II

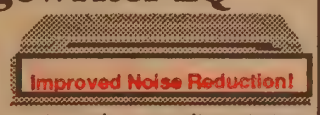
$435
Save $170



The ImageWriter II is a 9-pin dot matrix printer. It allows you to print in color or Black & White. Now at a New Low Price!

Imagewriter LQ

$979
Save $220!



Color 27 pin, wide carriage, letter quality printing. New Low Price.

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Macintosh Troubleshooting
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Microsoft Excel 2.2
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Please call for available dates, times and any further details..

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Networking
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Operating systems supported:
DOS
MacOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Apple
Everex
GCC Technologies
In-house experts:
Craig Nicholls
Jerry Dewalt
Reid Rankin
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
MS-DOS and Macintosh Training Center, service contracts, consulting, Novell-authorized

COMPUTER ELEGANCE

Store Manager: Derek Casanares
Address: 3400 Atlas, Suite 2411
City: Richmond Zip: 94806
Phone: (415)222-8463
Specialties:
386-DOS
Novell Netware
Paradox
Operating systems supported:
DOS
Best-selling product lines:
WordPerfect 5.0
Lotus 1-2-3
Paradox
In-house experts:
Derek Casanares
Theresa Casanares
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
System integration, complete automation of your business

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Address: 8939 San Ramon Rd.
City: Dublin Zip: 94568
Phone: (415)829-5011
Specialties:
Desktop Publishing
CAD-CAM
Operating systems supported:
DOS
Best-selling product lines:
NEC
Mitsubishi
Canon
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Return and guarantee policy, 12-month warranty

COMPUTER RESOURCE CENTER

Store Manager: Jerry Abad
Address: 2087 Mountain Blvd.
City: Oakland Zip: 94611
Phone: (415)339-2844
Specialties:
Education
Accounting
Word processing
Operating systems supported:
DOS
OS/2
MacOS
ProDOS
Best-selling product lines:
Panasonic
AT Compatibles
WordPerfect
In-house experts:
Jerry Abad
Valerie Abad
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training in word processing, systems installation, on-site repair

CPSA

Store Manager: Janet Judd
Address: 166 South J St.
City: Livermore Zip: 94550
Phone: (415)449-7744
Specialties:
CAD
CAE
LANs
Operating systems supported:
MacOS
UNIX/XENIX
Best-selling product lines:
Macintosh
MIPS
Quantum
In-house experts:
Greg Hensley
Al Pierce
Jeff Clark
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Extended warranty, training, on-site support, leasing

DATAWEST COMPUTER SYSTEM

Store Manager: Shakir Khan
Address: 42808 Christy St. #106
City: Fremont Zip: 94528
Phone: (415)490-6494
Specialties:
DTP
Medical
LANs
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Macintosh
Hewlett-Packard
Compaq
In-house experts:
Aly Fazili
Shakir Khan
Leanard Garrnat
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Upgrades, service, repair, loaner equipment with service contracts, extended warranties, free estimates

DIAMOND MICRO SOLUTIONS

Store Manager: Steve Mitchell
Address: 1615 Alvarado St.
City: San Leandro Zip: 94577
Phone: (415)351-4700
Specialties:
System Integration
CAD
Bus. App. Software
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Diamond Rocket 286/386
CalComp
Hewlett-Packard
In-house experts:
Stephan Wickham
Oscar Castro
Jim Hess
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Custom system integration, 800 phone support, on-site N. CA support, on-site 1-year warranty, Depot. 1-year warranty, 30-day money-back guarantees, comprehensive product guide, newsletter

DISCOUNT COMPUTER PRODUCTS

Store Manager: Tom Morris
Address: 15215 Washington Ave.
City: San Leandro Zip: 94579
Phone: (415)357-6530
Specialties:
Accounting
Databases
LANs
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Lantastic
Novell
Citizen
In-house experts:
Reny Morris
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranty with all computer systems and peripherals, technical support via telephone 10-6 pm

DISCOUNT TECHNOLOGIES

Address: 2486 Channing Way
City: Berkeley Zip: 94704
Phone: (415)649-9003
Other store locations:
Specialties:
Desktop Publishing
Accounting
Operating systems supported:
DOS
MacOS
Best-selling product lines:
Macintosh
Compaq
IBM
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
90-day warranty

DRIVE SERVICE CO.

Store Manager: Thomas S. Ahern
Address: 2122 Adams Ave.
City: San Leandro Zip: 94577
Phone: (415)430-0595
Other store locations: Costa Mesa, CA
Operating systems supported:
DOS
CP/M
Best-selling product lines:
Seagate
Maxtor
Miniscribe
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Hard disk drive repair, data recovery, refurbished drive sales

EFI'S DISCOUNT COMPUTERS

Store Manager: Efi Lupliner
Address: 3441 Golden Gate Way
City: Lafayette Zip: 94549
Phone: (415)283-1700
Specialties:
LANs
Desktop Publishing
Accounting
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
AST
Everex
Citizen
In-house experts:
Specialized Consultants
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free delivery and installation within 30 miles, full-year warranty, extended warranty policy

EMPAC INTERNATIONAL CORP.

Store Manager: Harvey Lau
Address: 47448 Fremont Blvd.
City: Fremont Zip: 94538
Phone: (415)683-8800
Other store locations: San Francisco, North Carolina, Toronto Canada
Specialties:
386 Systems
286 Systems
8088 Systems
Operating systems supported:
DOS
Best-selling product lines:
Empac MS-DOS 4.01
MS-DOS 3.3
In-house experts:
Jesse
David
Darren
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
1-yr parts and labor on systems, 7-day full-refund return

EVERGREEN COMPUTER

Store Manager: Frank Lee
Address: 2700 Rydin Rd. #C
City: Richmond Zip: 94804
Phone: (415)526-8667
Operating systems supported:
DOS
Best-selling product lines:
Panasonic printers
Logitech (mouse)
Goldstar (monitor)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
6-month warranty, service and repair

GENERIC COMPUTER SYSTEMS

Store Manager: Cliff Drumeller
Address: 22612 Foothill Blvd. #200C
City: Hayward Zip: 94541
Phone: (415)581-1494
Specialties:
Shareware
Operating systems supported:
DOS
In-house experts:
Cliff Drumeller
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
All software guaranteed, no questions

AGI stands for Advanced Group Innovations. We have been building personal computers since 1986 as an OEM group of Everex. To date we have shipped 500,000 of them to earn the reputation of producing solid, reliable products. The continually increasing demand from the retail channel had necessitated a spin-off of the OEM group into a full-fledged Everex subsidiary with a unique brand-name; AGI... Advanced Group Innovations Computers, the name resellers and distributors implicitly count on.
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Specialties:
LANs
TCP/IP
LAT
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Wyse
Hewlett-Packard
Everex
In-house experts:
Robert Albo
Peter Jackson
Pete Snell
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, support

HERB'S DISCOUNT SOFTWARE

Store Manager: Matt McCarty
Address: 4406A Enterprise Place
City: Fremont Zip: 94538
Phone: (415)490-6335
Specialties:
Entertainment
Education
Business
Operating systems supported:
DOS
AmigaDOS
OS/2
ProDOS
In-house experts:
Everyone
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Low, low price

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Store Manager: Paul Wasserman
Address: 4460 Black Ave., Suite G
City: Pleasanton Zip: 94566
Phone: (415)462-6337
Specialties:
LANs
Custom Database Applications
Technical Support
Operating systems supported:
DOS
Best-selling product lines:
Novell
Samsung
DTK
In-house experts:
Paul Wasserman
Terry Swiers
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Improve work group productivity, on-site service and support, needs analysis

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Store Manager: Kenneth Huey, President
Address: 1933 Davis St., Suite 218
City: San Leandro Zip: 94577
Phone: (415)562-8699
Specialties:
Networking
Office Automation
Multi-user Accounting and Databases
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Interactive 386/ix
Uniplex II Office Automation
Wyse and Esprit Terminals
In-house experts:
Kenneth Huey
Steven Fricke
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, warranties, consulting, setup; complete solutions for your computing needs

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Store Manager: Craig Williams
Address: 6711C Sierra Court
City: Dublin Zip: 94568
Phone: (415)829-9215
Specialties:
Laser Printers
Controller Boards
Laser Labels
Best-selling product lines:
Canon
Ricoh
NEC
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Maintenance contract, training on controller boards, manufacturer warranty, leasing plan

LIU COMPUTER

Store Manager: Sam Liu
Address: 46560 Fremont #305
City: Fremont Zip: 94538
Phone: (415)659-8644
Operating systems supported:
DOS
Best-selling product lines:
286-12 VLSI Motherboard
386-20 Gene II Motherboard
Fujitsu 1.2 floppy
In-house experts:
Sam Liu
Rui Liu

MAC ORCHARD

Store Manager: Jeff Walker
Address: 1928 Shattuck Ave.
City: Berkeley Zip: 94704
Phone: (415)649-2100
Specialties:
Desktop Publishing
CAD
Software Package Specialist
Operating systems supported:
MacOS
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Training, support, warranties

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MCTEK SYSTEMS, INC.

Store Manager: Charles Lee

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Personal computers as they exist today are designed with interdependent components. As a result, every time a new processor is developed, the entire computer has to be replaced.

Not anymore. AST's engineers designed a solution that physically separates the processor, cache and other components of a system that are most likely to change on to a Processor board. The components of a system that are usually constant are placed on a System board. Both communicate via a universal 32-bit interface.

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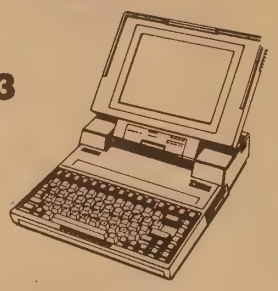

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LANs
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Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
IBM
Epson
Compaq

MICRO DESIGNS

Store Manager: Rick Lockwood
Address: 2499 Industrial Pkwy West
City: Hayward Zip: 94545
Phone: (415)785-6533
Specialties:
CAD
Custom Configurations
Hardware Integration
Operating systems supported:
DOS
Best-selling product lines:
Mylex
Orchid Technology
Panasonic
In-house experts:
Don Mason
Rick Lockwood
Gary Vile
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
2-yr warranty on motherboards, 1-yr on misc. components, 12-hr daily tech support 10 am to 10 pm

MICRO STRATEGIES, INC.

Store Manager: Paul Zoerb
Address: 1050 Marina Village Pkwy
City: Alameda Zip: 94501
Phone: (415)865-6880
Specialties:
CAD
Accounting
LANs
Operating systems supported:
DOS
Best-selling product lines:
Everex
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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MICROTECH INTERNATIONAL

Store Manager: Randy Calish
Address: 5865 Doyle St. #114
City: Emeryville Zip: 94608
Phone: (415)658-1433
Specialties:
dBASE
LANs
AutoCAD
Operating systems supported:
DOS
Best-selling product lines:
Everex
AST
Packard Bell
In-house experts:
Randy Calish (AutCAD)
Nadeem Zager (Novell)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Installation, service, training, system rentals, on-site AutoCAD, LAN planning and support

MICROWORLD

Store Manager: Bill Yerger
Address: 1514 University Ave.
City: Berkeley Zip: 94703
Phone: (415)841-9183
Specialties:
DTP
Gem
Animation/MIDI
Operating systems supported:
DOS
Best-selling product lines:
Atari
EZData
Cambridge
In-house experts:
Bill Yerger
Jon Gordon
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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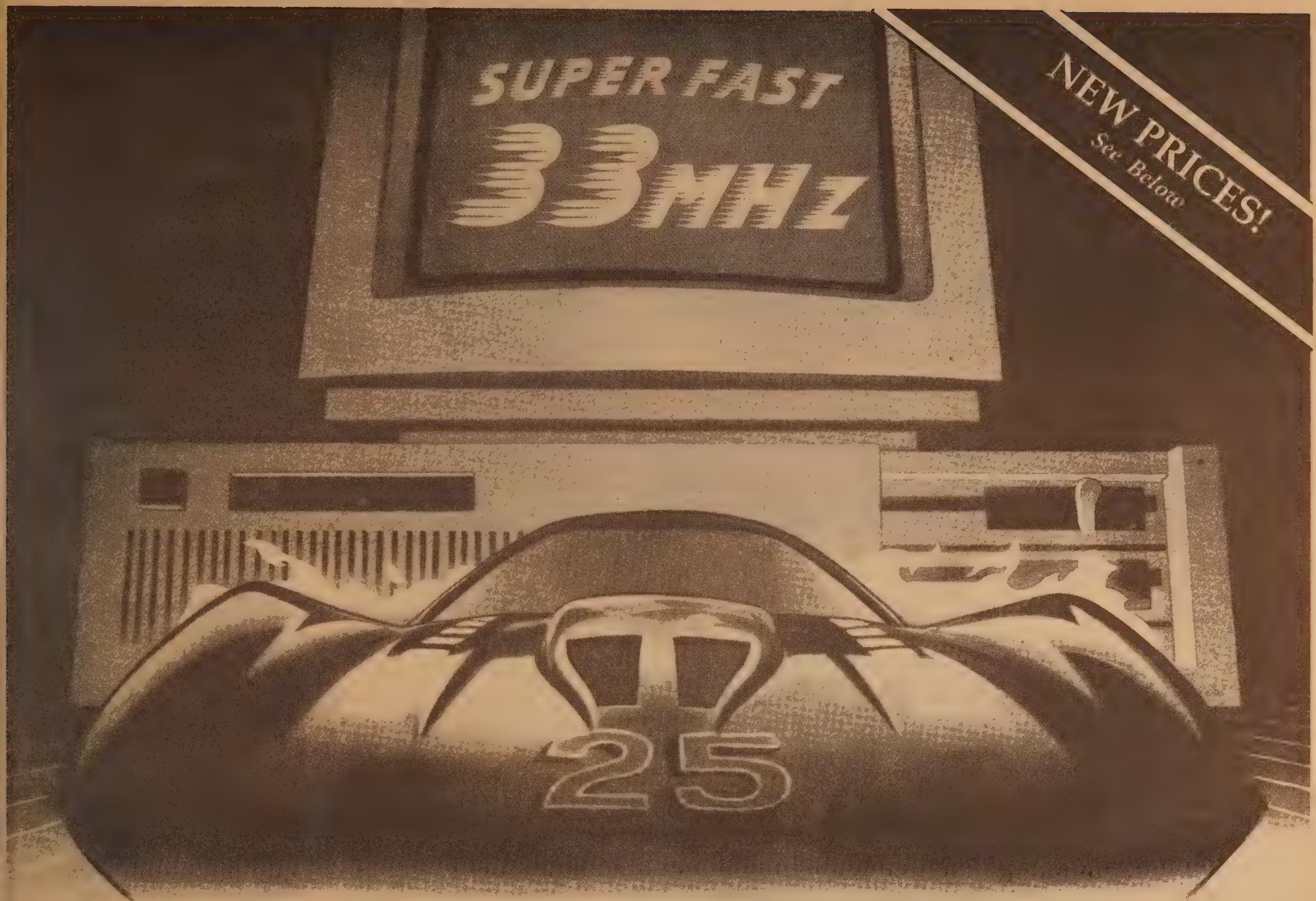
City: Fremont Zip: 94538
Phone: (415)659-8526
Specialties:
Accounting
Desktop Publishing
Engineering
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Myriad 286-12
Panasonic Printers
HP Laser Jet II
In-house experts:
Tony Lin
Jack Lai
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Warranties, support, service

MONARCH COMPUTERS

Store Manager: Sunil
Address: 863-C San Pablo Ave.



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- 58MHz performance

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- Enhanced keyboard
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- VGA SYSTEM: $2295

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Operating systems supported:
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AmigaDOS
OS/2
MacOS
TOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Epson
Hewlett-Packard
IBM
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Store Manager: Sanjeev Dalal
Address: 2493 Telegraph Ave.
City: Berkeley Zip: 94704
Phone: (415)548-7712
Specialties:
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IBM/Mac
Desktop Publishing
Operating systems supported:
DOS
MacOS
Best-selling product lines:
Microsoft
Wordperfect
Aldus
In-house experts:
Sanjeev Dalal
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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NORDIC COMPUTERS

Store Manager: Andy Jakobsen
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City: Concord Zip: 94520
Phone: (415)687-3050
Specialties:
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Operating systems supported:
DOS
Best-selling product lines:
Nordic Computer
Fortis Printers
Mylex Motherboards
In-house experts:
Denis Sorenson
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Store Manager: Benjamin C. Ou
Address: 46757 Fremont Blvd.
City: Fremont Zip: 94538
Phone: (415)226-1177
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Specialties:
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Operating systems supported:
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Phone: (415)623-8862
Specialties:
Publishing
Accounting
Operating systems supported:
DOS
OS/2
Best-selling product lines:
BTC
Super Com
Elite

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Store Manager: Assad
Address: 1555 Doolittle Rd. #190
City: San Leandro Zip: 94577
Phone: (415)895-2748
Specialties:
Configuration Specialist
Operating systems supported:
DOS

PVS ENTERPRISES

Store Manager: Paul Sheirich
Address: 151 Callan Ave #304
City: San Leandro Zip: 94577
Phone: (415)895-1190
Specialties:
LANs-Novell Netware
Sales Force Automation
Accounting-MAS 90
Operating systems supported:
DOS
Best-selling product lines:
Novell Netware
ACER
Kyocera Laser Printers
In-house experts:
Lee Hart
Paul Sheirich
Donn Holman
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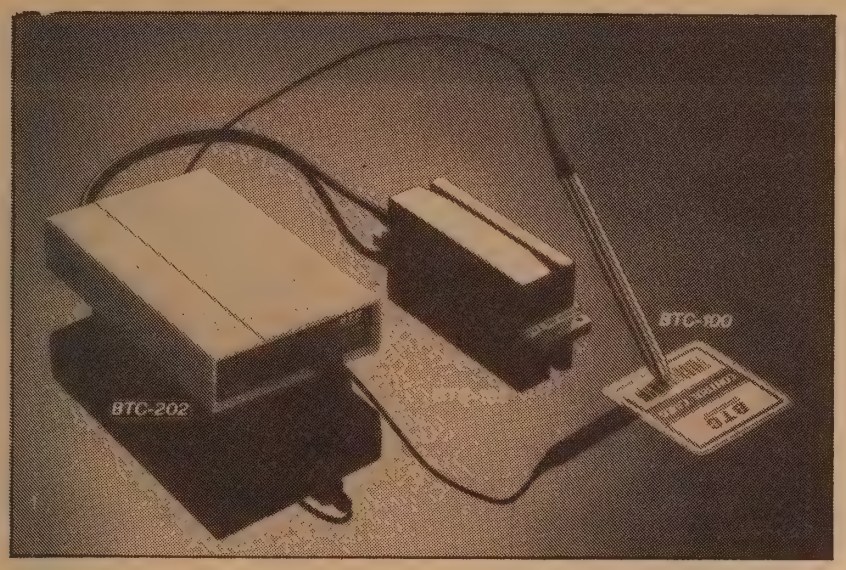

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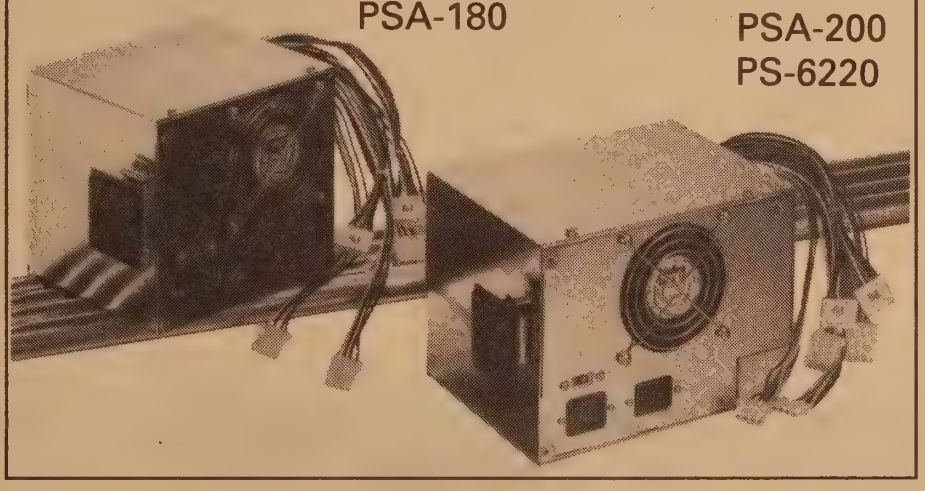

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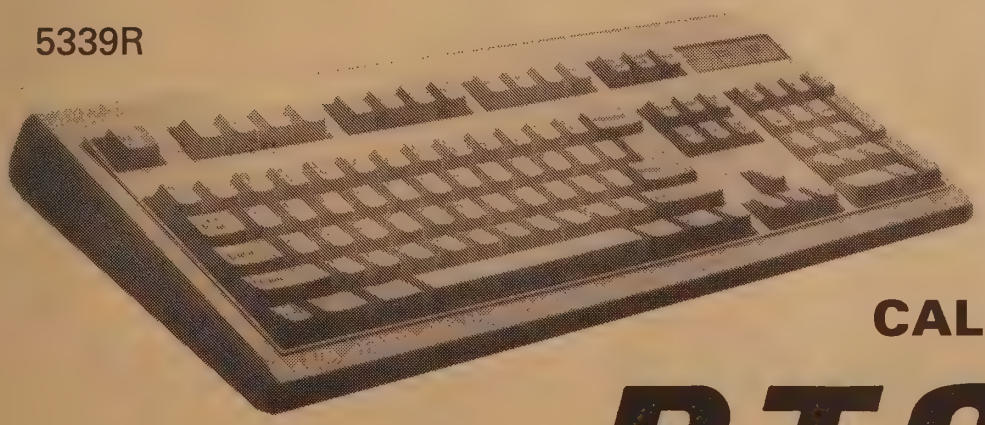

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- Mini Desktop AT Case
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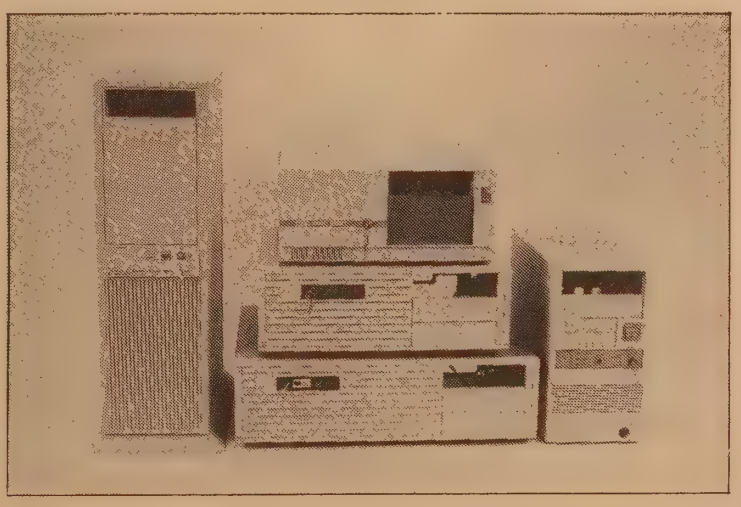

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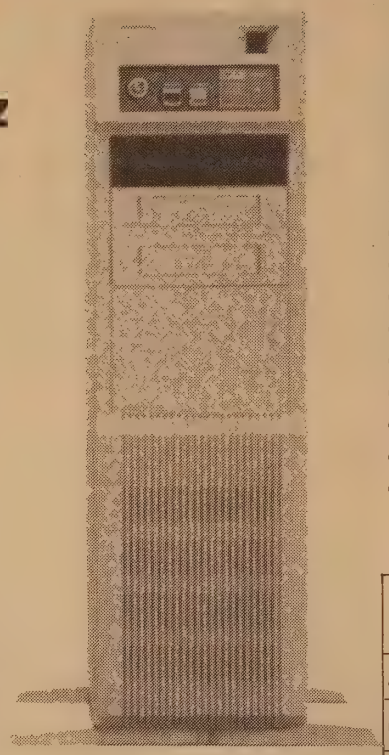

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- I/O (2S,1P,1G) or (2S,2P)
- 230 W Power Supply
- 101 Keytronic Keyboard
- 3.3 or 4.01 DOS Included
- Support DOS, OS/2, Unix, Xenix

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- 1.2 MB or 1.44 MB F/DD
- Socket for 387
- 2x32, 5x16, 1x8 bit slots
- 230 W Power Supply
- 101 Keytronic Keyboard
- 3.3 or 4.01 DOS Included
- Support DOS, OS/2, Unix, Xenix
- I/O (2S,1P,1G) or (2S,2P)

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- 101 Keytronic Keyboard
- 3.3 or 4.01 DOS Included
- Real Time Clock

System Matrix	Mono	VGA
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- 640K RAM Expandable to 4 MB
- 1.2 MB or 1.44 MB F/DD
- I/O (2S,1P,1G)
- 3.3 or 4.01 DOS Included
- Real Time Clock

System Matrix	Mono	VGA
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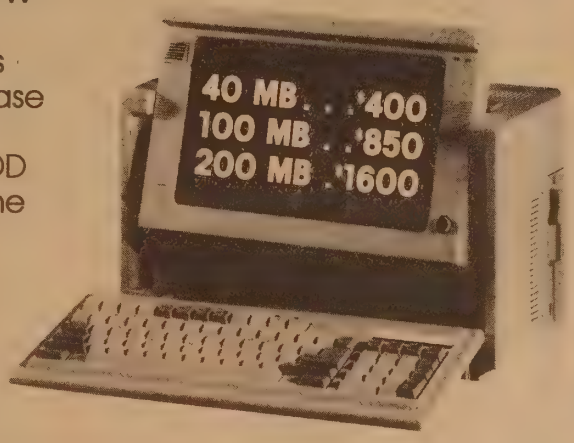

Options

VGA $3000
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AST
Novell
Everex
In-house experts:
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Barrett Franklin
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Store Manager: Bill Beckerman
Address: 426 17th St., Suite 610
City: Oakland Zip: 94612
Phone: (415)832-1970
Specialties:
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Operating systems supported:
DOS
AmigaDOS
MacOS
TOS
Best-selling product lines:
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Rolo Base-Database
In-house experts:
Bill Beckerman
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Phone: (415)226-9635
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Desktop Publishing
Novell Sales/Installation
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Advanced Logic Research
Mitsubishi Monitors
Novell
In-house experts:
Rich Mosso (Hardware)
Steve Monroe (CAD/DTP)
Chris Stone (Novell/DTP)
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Desktop Systems
Operating systems supported:
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Kingtech
Seagate
Relisys
In-house experts:
Song Chen
Jackie Pang
Li Chien
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, support, guarantees, return policy

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Store Manager: John A. Gennrich
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City: Orinda Zip: 94563
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Real Estate
Laptop Computers
Operating systems supported:
DOS
Best-selling product lines:
Everex
Toshiba
Panasonic
In-house experts:
John A. Gennrich
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Setup and delivery of all systems, including training and support, handle all warranty claims for customers

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Address: 44912 Osgood Rd.
City: Fremont Zip: 94539
Phone: (415)651-5101
Specialties:
Accounting
Desktop Publishing
LANs
Operating systems supported:
DOS
OS/2
MacOS
Best-selling product lines:
Hewlett-Packard
AGI
ARL
In-house experts:
Salim
Shoums
Mohammed
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support, after-sale service, warranties on all products

SYSTEM 48 DISTRIBUTING

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City: Fremont Zip: 94539
Phone: (415)490-2490
Specialties:
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Everex Peripherals
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
AGI
Everex
Evervision
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- 386-20. 590
- 386-SX 355

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- 286-16 0 Wait 315
- 286-12 0 Wait 170
- 286-10 0 Wait 150

- 8088 10 MHz 68

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- Mitsumi 360 KB/1.2 MB. 57/72
- Teac 360KB/1.2MB 62/74
- Teac 3.5" 720KB/1.44MB 68/78
- Toshiba 3.5" 720KB/1.44MB 68/78

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- Floppy Controller 360/720 . . . . . $17
- Fl. Contr. 360/720/12/144 35
- XT HD Contr. MFM/RLL 53/63
- AT FD & HD Contr. MFM. 89
- DTC 7280 (1 to 1, MFM) 123
- DTC 7287 (1 to 1, RLL) 145

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- 5060 84 Keys Keyboard 35
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- Everex EGA Micro Enhancer Deluxe Call
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- ATI/16. 220
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- Video 8/16 180
- Paradise Professional . . . . . CALL

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- Star NX1000 Rainbow 215

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- ST-238 215
- ST-238 Kit 265
- ST-251-1 (40 MB, 28 ms) 350
- ST-277R-1 (60 MB, 28ms). 375

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- 200 Watt Power Supply 48
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- 2400 Baud Modem Int./Ext. . . . 105/130
- Everex Internal 1200/2400 . . . . . 65/125
- Max 2400 Modem Int. 89

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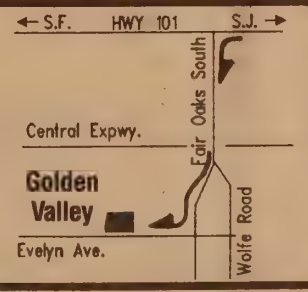
- Color RGB/EGA 195/310
- Nanao 8060S 545
- Nanao 9070S 940
- NEC Multisync 3D 620
- Multisync 425
- VGA Monitor. 340



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Store Manager: Thomas Phamvu
Address: 3141-B Crow Canyon Pl.
City: San Ramon Zip: 94583
Phone: (415)866-6177
Specialties:
Business Computers
Personal Computers
Educational Software
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Panasonic
Mitsuba
Relisys
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranty, exchange, upgrade

TOMORROW'S WORLD

Store Manager: Steve Nunley
Address: 3333 Mt. Diablo Blvd.
City: Lafayette Zip: 94549
Phone: (415)283-5833
Specialties:
Voice Mail
Networks
Real Estate
Operating systems supported:
DOS
Best-selling product lines:
Packard Bell
Star Micronics
In-house experts:
Steve Nunley
Bob Jensen
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Authorized service center, training, support, systems evaluation

TOWA COMPUTER, INC.

Store Manager: Anthony Cheung
Address: 4061 Clipper Court
City: Fremont Zip: 94133
Phone: (415)623-7890; FAX (415)623-7123
Specialties:
Desktop Publishing
Network
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
TC Series
Towa PC
In-house experts:
Jeffrey Lee
Steve Chang
Gary Caspi
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year parts/labor warranty

TRACK COMPUTER CENTER

Store Manager: Brandon Fouts
Address: 236 2nd St.
City: Oakland Zip: 94607
Phone: (415)444-8725
Other store locations: 320 Judah St., Suite 1, San Francisco, CA 94122, (415)753-8725
Specialties:
Manufacturing
Multiuser
LANs
Operating systems supported:
DOS
CP/M
OS/2
UNIX/XENIX
Best-selling product lines:
Compaq
AST
Toshiba
In-house experts:
Brandon Fouts
Mark Slafkes
Alan Schultz
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service (on-site and depot.), training, support contract, manufacturer's and extended warranties, intelligence, sensitivity, and professionalism

UC COMPUTER

Store Manager: Anita Shue
Address: 2596 Telegraph Ave.
City: Berkeley Zip: 94704
Phone: (415)540-0372
Specialties:
Desktop Publishing
LANs
Accounting
Operating systems supported:
DOS
UNIX/XENIX
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One year on parts and labor on all systems, 24-hour turnaround service, 30-day software compatibility policy

U.C. MICROLAND

Store Manager: Ken Chu
Address: 2501 Channing Way
City: Berkeley Zip: 94704
Phone: (415)649-8888
Specialties:
Ace Computer Systems
Desktop Publishing
Database
Operating systems supported:
DOS
Best-selling product lines:
U.C. Microland
Panasonic
In-house experts:
Ken Chu
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Hardware installation, software installation, 6-mo. system warranty parts, one-year labor

VALCOM COMPUTER CENTER

Store Manager: Harry Kumar
Address: 39149 Civic Center
City: Fremont Zip: 94538
Phone: (415)790-1388
Specialties:
Accounting
LANs
Operating systems supported:
DOS
Best-selling product lines:
COMPAQ
NEC
AT&T
In-house experts:
Harry Kumar
Al Mathey
Ann Samuel
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Software training—Lotus, DOS, and WordPerfect; on-site service; return policy; guarantees
One-year warranty on parts and labor

VISION ARTS

Store Manager: King McCarthy
Address: 1513 N. Main St.
City: Walnut Creek Zip: 94596
Phone: (415)943-1600
Specialties:
Computer Graphics Products

WHOLE EARTH ACCESS

Store Manager: Dennis Masella
Address: 1321 67th St.
City: Emeryville Zip: 94608
Phone: (415)428-1600
Other store locations: Berkeley, Concord, San Francisco, San Jose, San Mateo, San Rafael
Specialties:
LANs
DIP
Accounting
Operating systems supported:
DOS
OS/2
MacOS
ProDOS
Best-selling product lines:
Apple
Whole Earth Computer Systems
IBM
In-house experts:
Albert Brown (LANs)
Bill Bowen (DIP)
Tom Lee (Accounting)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Authorized service, tech support, extended warranty, 14-day return for defective merchandise

WINNERS CIRCLE

Store Manager: Andy Jong
Address: 2618 Telegraph Ave.
City: Berkeley Zip: 94704
Phone: (415)845-4814
Specialties:
CAD
LANs
Desktop Publishing
Operating systems supported:
DOS
AmigaDOS
UNIX/XENIX
Best-selling product lines:
Everex
Amiga
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Authorized corporate and institutional dealer, service, classes, warranties

WINTEC INDUSTRIES, INC.

Store Manager: William Jeng
Address: 893 Boggs Ave, Suite D
City: Fremont Zip: 94539
Phone: (415)770-9239
Specialties:
General Applications
Networking
Industries
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Samsung
Toshiba
Intel
In-house experts:
Sue C.
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support, warranties, return policy

Peninsula

BELMONT COMPUTER STORE

Store Manager: Andy Lin
Address: 1549 Industrial Rd.
City: San Carlos Zip: 94070
Phone: (415)598-9058
Specialties:
Motherboards
Hard Disks
Best-selling product lines:
Panasonic Printers
386/286
In-house experts:
Andy
Kathy
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year parts and labor warranty, UPS daily shipping

COMPUTER-AGE

Store Manager: David Morris
Address: 2199 El Camino Real
City: San Mateo Zip: 94403
Phone: (415)348-2667
Specialties:
Accounting
Construction
LANs
Operating systems supported:
DOS
CP/M
Best-selling product lines:
KayPro
Brother
Compudex
In-house experts:
Fred Cohn
David Morris
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
30-day return policy, 1-hour orientation with computer

COMPUTERLAND

Store Manager: Marc Ducasse
Address: 925 E. Hillsdale Blvd.
City: Foster City Zip: 94404
Phone: (415)377-0800
Specialties:
DTP
LocalTalk LANs
Business Solutions
Operating systems supported:
DOS
OS/2
MacOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Apple
IBM
COMPAQ
In-house experts:
Dianne Hickey
Dave Dusseau
Renee Spahn
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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Link PC's to Mainframes with Quadrams Mainlink IIE Low Cost 3270 terminal emulator board with file transfer software.

List: $395
SALE $295
YOU SAVE $100

INSTANTLY TURN PC-AT INTO A 386

With simply one step insert of AOX master 386 card into any 16 bit expansion slot of an AT or compatible. No Clips to pull, no cables to connect and no software to install. Switch from 80286 to 80386 and back with one touch of a hot key as desired.

List: $1395 (20 MHz)
SALE $1095
YOU SAVE $300

List: $1195 (16 MHz)
SALE $995
YOU SAVE $200

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Micro Channel QuadFax-9600. Half Card 9600 bps. PC FAX.

$350 SALE

List: $495
YOU SAVE $145

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Simply insert Teletek's bandit card into a slot. Designed to use Lotus/Intel/ Microsoft. EMS 4.0 specs. Segmented memory. Available for both XT & AT.

List: $479 (for AT) — **SALE $359** — **YOU SAVE $120**

List: $449 (for XT) — **SALE $349** — **YOU SAVE $100**

KEEP PC's WORKING EVEN AFTER TURNING OFF

List: $699
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YOU SAVE $200

With FACETECH's Facecard. Self-powered card that turns PC into an overnight courier, a bulk mail service, and an electronic message system. (One card needed at each receiving & sending PC)

ACCELERATE SLOWER PC's

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Based on the 80386 microprocessor, the 386si dramatically improves the performance of 8088 and 8086 PC's.

List: $445 — **SALE $370** — **YOU SAVE $75**

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By simply replacing 80287 math co-processors with FLOATING POSIN MATH co-processor of JIT:IIT2C37-20 MHz. Object code & Plug compatible with the 80287 & 80C287A. Operates at clock rate of up to 20 MHz (can use 80286 Clock). Low power CMOS device. Speed booster for desktops and ideal for laptops. Rave reviews by experts: "...co-processor can run as fast as 20 MHz, which means the speed advantage of the 386/287 is about to disappear."—BYTEWK

List: $489 — **SALE $389** — **YOU SAVE $100**

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For PC & XT Half slot card. The day & date are kept accurate even when the power is off through a 5-Year replaceable battery.

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Provides PC/XT users with RS-232 serial port. AT&T 6300 compatible.

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Combines the functions of the chronograph and Async adpater, as well as parallel port into one card.

List: $185 — **SALE $145** — **YOU SAVE $40**

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Half slot card for XT's to get two additional serial and a parallel port.

List: $225 — **SALE $175** — **YOU SAVE $50**

QUADPORT AT

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The B-300 is a 286-based laptop computer which lets you carry all the processing power of a full-blown desktop AT with you — wherever you go! The package is so complete that it exceeds your expections in every way.

It's main features include:

- 10 MHz 286 CPU
- 80287 Co-Processor Socket
- 1 MB RAM Expandable to 1.5 MB
- 20 MB Hard Disk
- 1.44 MB 3.5" Floppy Disk Drive
- 10.5" Backlit Supertwist LCD
- 1200 BPS Hayes Compatible Modem
- Built-in Color Graphics Adapter
- RS-232 Communications Port
- Centronics Printer Port
- RGB Color Port
- External Disk Drive Port
- **Built-In Battery & Recharger**
- AC Power Adapter
- MS DOS 3.3, GW BASIC 3.22
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- FCC CLASS B APPROVED

$2495 Sug. Retail

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DOS 4 COMPATIBLE

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14" MONOCHROME AMBER TTL

The DM-14+ provides 750x350 resolution on a dark glass, non-glare screen. Text and graphics can be displayed in either 80 or 132 column modes. The monitor has a Tilt & Swivel base and easy-to-reach brightness and contrast controls for user convenience. It will operate with an IBM Monochrome Display Adapter, a Hercules Graphics Card and most monochrome video boards.

$135 Sug. Retail

14" MONOCHROME AMBER FLAT SCREEN

$145 Sug. Retail

Quimax

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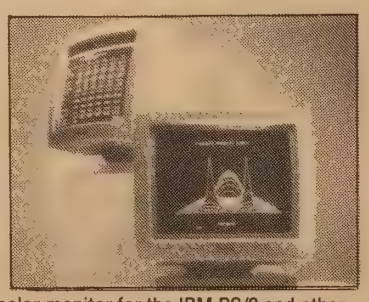
A TWO-YEAR WARRANTY ON ALL QUIMAX MONITORS!

14" HIGH RESOLUTION VGA COLOR w/ .31mm DOT PITCH



The DM-3114 is a high resolution color monitor for the IBM PS/2 and other VGA compatible computers. With its advanced analog technology, it provides virtually unlimited selections of colors. And their many display modes assure that everything from the simplest test to the most complex graphics is displayed with crisp, bright pictures. The DM-3114 has Tilt & Swivel stands and easy-to-reach power, brightness and contrast controls for user convenience. Switchable 110 & 220 Volts.

$469 Sug. Retail

14" HIGH RESOLUTION VGA MONO PAPER WHITE

The DM-3014 is a high resolution monochrome monitor for the IBM PS/2 and compatible computers. With its advanced analog technology, it can display 64 shades of gray on a paper-white phosphor screen. Its 14-inch screen supports 132 column mode and provides a larger, easier-to-read viewing area than the IBM 8503 monitor. Everyting from text to complex graphics is displayed with a depth and clarity previously unavailable on mono monitors. Tilt & Swivel base and easy-to-reach power, brightness and contrast controls are proveded for user convenience. Switchable 110V & 220 Volts.

$149 Sug. Retail

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14" HIGH RESOLUTION EGA w/.31mm DOT PITCH

The DM-2214 dual-scan monitor displays vibrant color images in both CGA & EGA modes. The DM-2214 14"-screen produces a crisp, clean picture at a size that's easy-to-read. At the flick of a switch, the screen can be changed from color to green or amber for text applications. It has Tilt & Swivel base and easy-to-reach brightness, contrast and power controls. With its automatic mode switching, the IBM-compatible DM-2214 senses whether it's operating with a CGA or EGA card and displays accordingly. Switchable 110 & 220 Volts.

$425 Sug. Retail.

CompuStar

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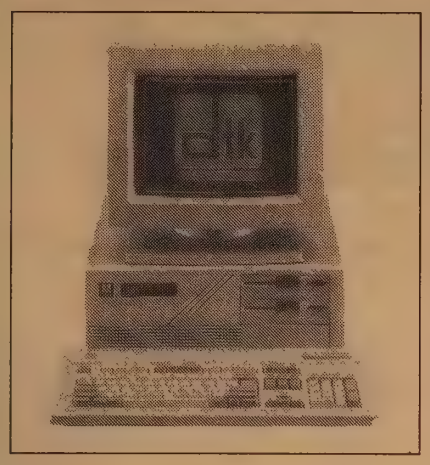
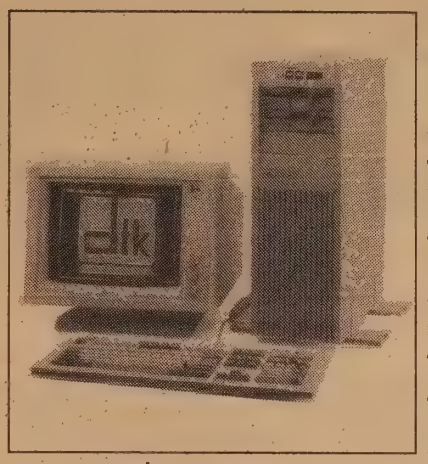


20 MHz System
Serves as Ideal CAD Workstation

DTK's FCC-Certified KEEN-2030 is a 20 MHz INTEL 80386-based high-performance system packaged in a mini-AT cabinet. It features 2 serial ports, 1 parallel port, 8 expansion slots and up to 8MB of RAM.

A 4MB version of the KEEN-2030, equipped with an 80MB hard disk and 80387 math coprocessor, was used by INFOWORLD magazine as the test bed for a product comparison of four high-end Computer-Aided Design (CAD) systems (See the July 17, 1989 issue).

$899 Suggested Retail—Bare Bone System



25MHz Bare Bone System
Offers Low Price/High Performance with Cache

The DTK KEEN-2500 offers performance superior to other 80386-based 25 MHz computers, at a lower price.

The system utilizes the high-quality PEM-2500 motherboard with an innovative 64KB/256KB selectable write-back cache, eight expansion slots, and room for 16MB of 32-bit DRAM.

The KEEN-2500 is certified for hardware and software compatibility by XXCAL Test Labs. It is Landmark VO.99 rated at 43.5 and Norton SI V4.0 rated at 32.5, making it one of the fastest systems in its class. In fact, MIPS magazine rates it the 386/25 price/performance leader running under SCO XENIX.

$1512 Suggested Retail— Bare Bone System

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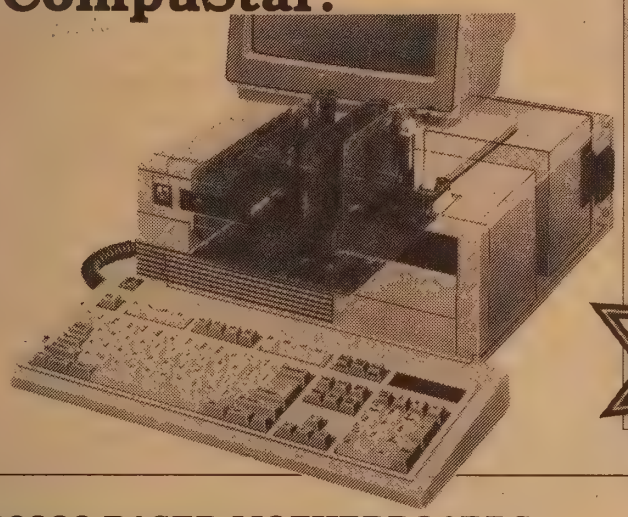

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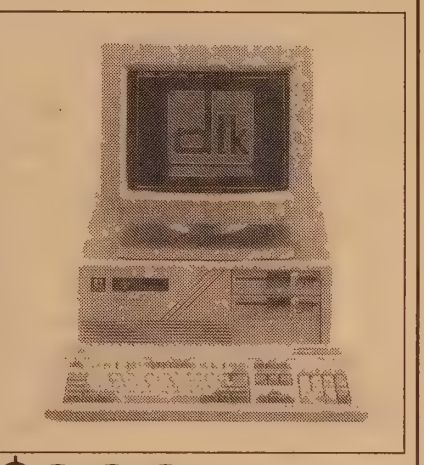
12 MHz Zero Wait State
80286-Based System Features VLSI Chip Set

Although the DTK TECH-1230C is packaged in a compact "Mini-AT" cabinet, the system delivers "BIG" system performance. Incorporating the DTK Mini-AT motherboard with built-in serial and parallel ports, the TECH-1230C features the VLSI chip set and eight expansion slots (four 16-bit and four 8-bit).

The TECH-1230D uses the same motherboard, but comes in a full-size AT cabinet where extra drive bays are a concern. Both systems are FCC, UL and SA certified and come with DTK's one-year warranty.



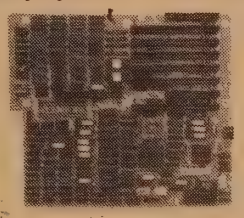
$399 Suggested Retail—Bare Bone

80386-BASED MOTHERBOARDS

PEM-2500 25 MHz, Cache '386

- Dual speed: 10/25 MHz
- 64 KB write-back cache, switchable to 256 KB
- Up to 8 MB of DRAM on board, expandable to 16 MB (optional memory expansion card)
- 8 expansion slots
- Certified for compatibility by XXCAL Test Labs
- Landmark VO.99 rated at 43.5 MHz
- 6.2 MIPS

$1199 Suggested Retail



PEM-2000 20 MHz

- Up to 1 MB RAM on board, expandable to 17 MB with two PEI-301 RAM cards
- Two 32-bit memory bus slots, five 16-bit and one 8-bit slot
- 2 serial, 1 parallel ports built-in
- Landmark VO.99 rated at 26.5 — 27.3 MHz

$699 Suggested Retail

80286 BASED MOTHERBOARDS

PTM-1230C, 12 MHz, Zero Wait State, Mini '286

- Up to 1MB of on-board RAM
- VLSI chip set
- Built-in: 2 serial and 1 parallel ports
- Landmark VO.99 at 15.9 MHz

$299 Suggested Retail

PTM-1030 10 MHz, Zero Wait State, Mini '286

- Up to 1 MB of on-board RAM
- 16-level interrupt
- VLSI chip set
- Landmark VO.99 rated at 13 MHz

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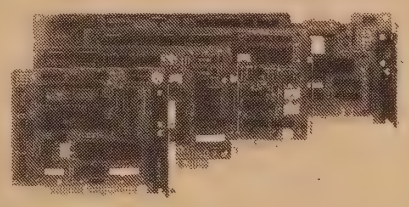
- **PII-147 HEXA I/O:** FDC for 360KB FDD, One serial (2nd optional), one parallel, one game, clock/calendar **$79** Suggested Retail



- **PII-144 PENTA I/O**: One serial (2nd optional), one parallel, one game, clock/calendar **$59** Suggested Retail
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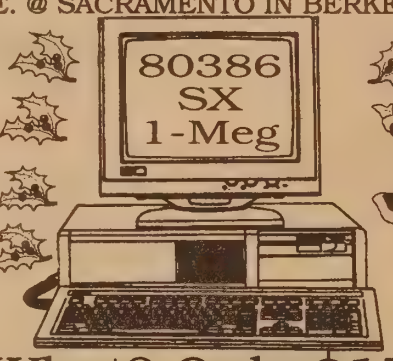

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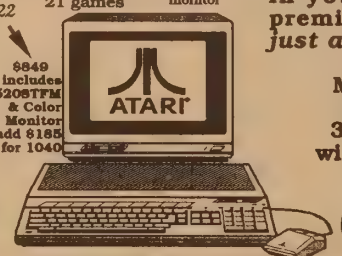

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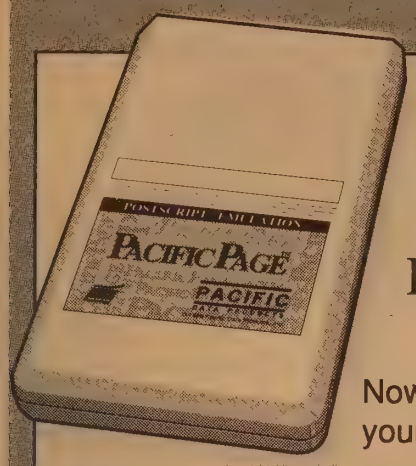

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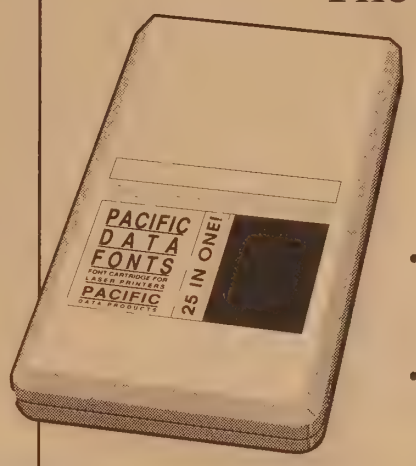

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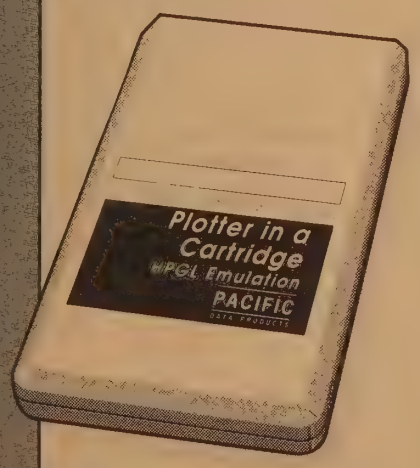

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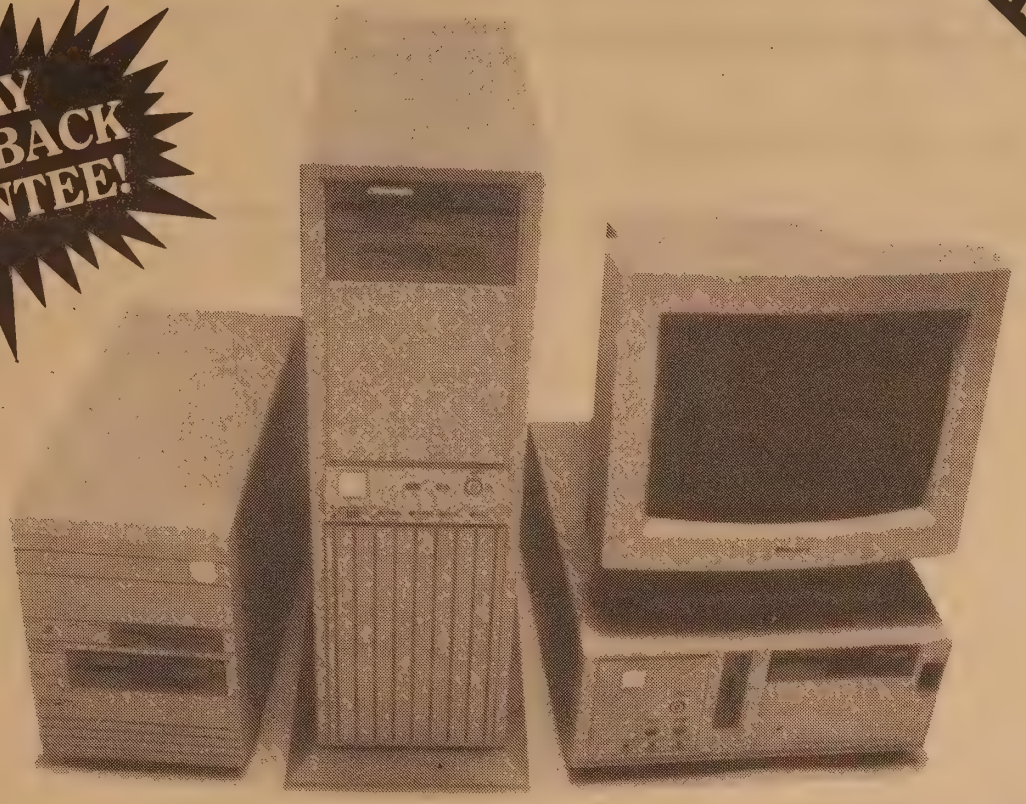

Beyond Computer Systems

Systems:	286/12	286/16	386SX/20	386/20	386/25	Cache 386/25	Cache 386/33
Price:	**$560**	**$620**	**$830**	**$1170**	**$1360**	**$1980**	**$2450**
CPU:	Intel 80286-12	AMD 80286-16	Intel 80386SX	Intel 80386-20	Intel 80386-25	Intel 80386-25	Intel 80386-33
Coprocessor:	80287 socket	80387SX socket	80387SX socket	80387 socket	80387 socket	80387/Weitek	80387/Weitek
Cache Memory:	None	None	None	None	None	3167	3167
Speed:	12/8 MHz	16/8 MHz	20/10 MHz	20/10 MHz	25/12.5 MHz	64K up to 256K	64K up to 256K
Wait State:	Zero or one	Zero or one	Zero or one	Zero or one	Zero or one	Zero or one	Zero or one
Clock:	YES	YES	YES	YES	YES	YES	Yes
BIOS:	AMI	AMI	AMI	AMI	AMI	AMI	AMI
Memory:	512K up to 4 MB	512K up to 8 MB	1 MB up to 8 MB	1MB up to16 MB	1 MB up to16 MB	1 MB up to16 MB	1MB up to 16MB
Disk							
Controller:	2:1 interleave	1.1 Interleave	1:1 interleave	1:1 interleave	1:1 interleave	1:1 interleave	1:1 Interleave
Floppy Drive:	1.2 MB	1.2 MB	1.2 MB	1.2 MB	1.2 MB	1.2 MB	1.2 MB
Keyboard:	101 keys	101 keys	101 keys	101 keys	101 keys	101 keys	101 keys
Expansion							
Slots:	6/16-bit, 2/8-bit	5/16-bit, 3/8-bit	5/16-bit, 3/8-bit	1/32, 5/16,2/8-bit	1/32,5/16,2/8-bit	1/32,5/16,2/8-bit	1/32,5/16,2/8-bit
Power Supply:	200 Watt	200 Watt	200 Watt	200 Watt	200 Watt	200 Watt	200 Watt
Warranty:	One year	One year	One year	One year	One year	One year	One year

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20 MB, 65 ms, MFM	$195
30 MB, 65 ms, RLL	$210
40 MB, 28 ms, MFM	$330
60 MB, 28 ms, RLL	$418
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112 MB, 17 ms, ESDI	$1,000
150 MB, 23 ms, ESDI	$1,330
332 MB, 17 ms, ESDI	$2,100

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Mono card:	$35
Color card:	$45
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VGA-16: (800x600)	$140
Paradise VGA-16 (OEM)	$175
Video 7 VGA-16 (OEM)	$170
Orchid Pro Designer	$225
Orchid Pro Designer Plus	$300
V-RAM (256 KB)	$440
V-RAM (512 KB)	$540

Monitors

Mono Monitor:	$75
EGA Monitor:	$330
VGA Monitor:	$350
Multiscan:	$488

2nd Floppy

360 KB floppy drive	$60
1.2 MB floppy drive	$75
720 KB floppy drive	$70
1.44 MB floppy drive	$80

Beyond Computers

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San Jose, Ca. 95131

Tel: (408) 433-9640
Fax: (408) 433-0734
Hours: M-F 9-6 Sat 10-5

beyond

AMERICAN COMPUTERS

Store Manager: Jeff Kahn
Address: 780 Montague Expwy #305
City: San Jose Zip: 95131
Phone: (408)432-6277
Specialties:
High Performance 386's
Portable Computers
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
IBM
In-house experts:
Joe Bender
Jeff Kahn
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
30-day return policy, tech support, training, 1-year warranty

AMERICAN MICRO SYSTEMS

Store Manager: Andrew P. Hradesky
Address: 2175 Aborn Rd., Suite 262
City: San Jose Zip: 95121
Phone: (408)270-9730; BBS 9 pm-9 am
Specialties:
Desktop Publishing
Consignment Sales
Laptops
Operating systems supported:
DOS
CP/M
TOS
Best-selling product lines:
Cambridge Z88 (laptop)
Sinclair QL (M6800-based micro)
Amstrad IBM Clones
In-house experts:
Bill Miller
Mark Wahl
Gilbert Blasingame
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
We service what we sell, give full warranties on both new and used equipment. We personally install systems in owner's home or place of work. Full one-week tutorial on all sales. 17-day money-back guarantee (includes 7 days training, 10 days application)

ARK SCIENCE CORP.

Store Manager: Tony Huang
Address: 500 Laurelwood Rd., Ste. 5
City: Santa Clara Zip: 95054
Specialties:
LANs
Operating systems supported:
DOS
UNIX/XENIX
OS/2
Best-selling product lines:
ARK 286-12 MHz System
ARK 386-20 MHz System
ARK 386-16 MHz System
In-house experts:
Freddy Chang
Sterling Du
Grace Loh
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year limited warranty on parts and labor, 7-day money-back customer satisfaction guarantee, COD, money orders, credit card charge, corporate PO's, daily UPS shipping, call for accessories, upgrades, peripherals, and service

AROMA TECH

Address: 3685 Enochs St.
City: Santa Clara Zip: 95051
Specialties:
Accounting
LANs
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Relysis
Nanao
Everex
In-house experts:
Robert Wang

BEYOND COMPUTER

Store Manager: Clare Sham
Address: 780 Montague Expwy, Ste. 104
City: San Jose Zip: 95131
Phone: (408)433-9640
Specialties:
LANs
Accounting
CAD
Operating systems supported:
DOS
Best-selling product lines:
Beyond Computer System
Everex
Hawk
In-house experts:
Tony Ho
Clare Sham
Khin
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranties on both parts and labor, 15-day money-back policy, on-site service option, installation and training packages, extended warranty option

BIG CHAIN, INC.

Store Manager: Peter Chen
Address: 3030 Scott Blvd.
City: Santa Clara Zip: 95054
Specialties:
LANs
Computer Hardware
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Big Chain 386 System
Ethernet Network System
Big Chain 286/386sx
In-house experts:
Peter Chen
Paul Chu
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Help-U-Build computer workshop, hardware/software tech support, corporate maintenance service

BUSINESS SYSTEMS AND FORMS

Store Manager: George Szymkienicz
Address: 2030 Martin Ave.
City: Santa Clara Zip: 95050
Specialties:
Custom Forms
LANs
Operating systems supported:
DOS
OS/2
Best-selling product lines:
Hewlett-Packard
Okidata
Mitac
In-house experts:
Call us
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Friendly and helpful assistance, satisfaction guaranteed, very extensive line of computer supplies

CDS ADVANCED COMPUTER PRODUCTS

Store Manager: Cary Snyder
Address: 1630 Oakland Rd., Suite A104
City: San Jose Zip: 95131
Phone: (408)437-1003
Specialties:
Desktop Publishing
LANs
Turnkey System
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
CDS
In-house experts:
Greg
John
Karry
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
18-month warranty, excellent tech support, training seminars

CHICOTEC, INC.

Store Manager: Kan Sang Liao
Address: 3048 Scott Blvd.
City: Santa Clara Zip: 95054
Operating systems supported:
DOS
UNIX/XENIX
OS/2
Best-selling product lines:
286 AT System
Portables
In-house experts:
Daniel Shim
Kan Sang Liao
Spencer Chan
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
We have support, one-year warranties, and return merchandise authorization offer for customers

COMPUTER SELECTION

Store Manager: Simon Chow
Address: 1202 Apollo Way
City: Sunnyvale Zip: 94086
Phone: (408)746-2288
Other store locations: 201 Mission St., San Francisco, CA 94105
Specialties:
Desktop Publishing
LANs
Point of Sale
Operating systems supported:
DOS
MacOS
ProDOS
Best-selling product lines:
Apple
GCC
Microsoft
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site or in-house service, training center

THE COMPUTER STORE

Store Manager: Jim Chang
Address: 67 E. Evelyn Ave
City: Mountain View Zip: 94041
Phone: (415)968-3466; FAX 968-2618
Other store locations: San Francisco, Sacramento
Specialties:
LANs
Desktop Publishing
Accounting/Database Management/ Custom Programming
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Optima
In-house experts:
Jeffrey Kho
Jim Chang
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free tech support, on-site training

COMPUTERWARE

Store Manager: Geoff Westerfield
Address: 490 California Ave.
City: Palo Alto Zip: 94306
Phone: (415)323-7559
Other store locations: 520 Lawrence Expressway, Sunnyvale–(408)732-0220
Operating systems supported:
MacOS

COMPUTERWARE

Address: 520 Lawrence Expwy
City: Sunnyvale Zip: 94086
Phone: (408)732-0200
Other store locations: Palo Alto
Specialties:
Desktop Publishing
Operating systems supported:
DOS
CP/M
AmigaDOS
OS/2
MacOS
TOS
ProDOS
UNIX/XENIX
Best-selling product lines:
Macintosh
Laser Printers
In-house experts:
Everyone
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, return policy, used systems

COMPUTER WHOLESALER CO.

Store Manager: Mr. Saul Young
Address: 3675 Stevens Creek #E
City: San Jose Zip: 95117
Phone: (408)241-0185/241-0390
Specialties:
Accounting
DOS 4.01
DOS 3.3
Operating systems supported:
DOS
Best-selling product lines:
Everex
Panasonic
Micronics
In-house experts:
Saul
Frank
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranty: free parts and labor, support

Lowest Prices in The Area!

IBM®

PS II M 70-061/70 1-121	CALL
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III Model 20 MB 1.2 Fl 640K	3395
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SLT 286 Model 20/40 MB HD in Stock!	CALL
Compaq VGA Adapter/Monitor	385/525
Compaq Amber/Green	195

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386-25 MHz 110/300 MB HD	6795/8295
386S Model 1/20/40 meg	2275/2545/2795
386-20E Model 40/110	4295/5395
386S/386 20 E Model 100 MB HD	3650/4850

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Deskwriter	810
Scanjet/Plus	1065
Plotter 7475 A	1395
1 MB Compatible Upgrade	199
2 MB Compatible Upgrade	475
25 in 1 Font	299
Fonts: HP & Compaq	CALL

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HP Compatible 1 MB	$199

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Apple Mac SE/30 - 40 MB	3195
Apple Mac II ci	Low
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L.A. AREA
8629 Washington Blvd.
Culver City, CA 90232
Hours: M-F 9-5:30
213-559-0338 FAX: 213-559-2149

$395

Hi-Q TOWER 33 MHz 386 COMPLETE VGA SYSTEM

Landmark = 58.5 SI = 45.9

64K CACHE with 66 MB HARD DISK

- *14" VGA Monitor with 16 Bit VGA Adapter*
- *2 MB RAM On Board*
- *66 Mb 23 ms Hard Disk*
- *1.2 or 1.44 MB Floppy Drive*
- *1:1 Interleave Hard/Floppy Disk Controller*
- *64K Fast Cache RAM*
- *Socket for 80387 Socket & Weitek Math Co-Processor*
- *1 × 32 Bit, 5 × 16 Bit, 1 × 8 Bit Slot*
- *2 Serial, 1 Parallel, 1 Game Port*
- *Real Time Clock/CMOS Memory w/Battery Back-up*
- *220W Power Supply & TOWER Case Holds 6 Drives*
- *101 Key MaxiSwitch Keyboard*
- *Supports – MSDOS, OS/2, PC-MOS/386, UNIX, XENIX, DR-DOS, Concurrent DOS 386*

MICRONICS MOTHERBOARD

THIS MONTH'S SPECIAL
Hi-Q TOWER 25 MHz 386 SYSTEM 32K CACHE with 66 MB 23 ms HARD DISK

- *Landmark = 37.9 SI = 31.6*
- *1 MB Expandable To 12 MB: Memory Support To 16 MB Total with Optional Memory Board*
- *Austek Cache Controller w/32K Cache RAM*
- *Socket FOR 80387 & Weitek Math Co-Processor*
- *2x32 Bit, 5x16 Bit, 1x8 Bit Slots*
- *Real Time Clock/CMOS Memory w/Battery Back-Up*
- *1.2 MB Floppy Drive*
- *66 MB 23 ms Hard Disk*
- *1:1 Interleave Hard/Floppy Drive*
- *2 Serial, 1 Parallel, 1 Game Port*
- *230W Power Supply & Quality Case Holds 5 Drives*
- *101 Key MaxiSwitch Keyboard*
- *Technical Version 4.0 & I/O Cache Utility*
- *Supports MS DOS, OS/2, PC-MOS/386, UNIX, XENIX, DR-DOS, Concurrent DOS 386*

$1995

150 MB ESDI HARD DISK (23ms) With 16 Bit 1:1 Interleave ESDI Cache Controller (32K Cache)

$795 w/System Purchase

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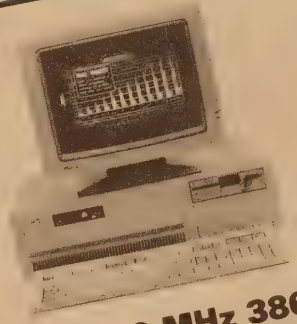


Hi-Q 20 MHz 386 SYSTEM

Landmark = 25 SI = 23

with 66 MB HARD DISK

- *1 MB RAM Expandable to 8 MB On-board*
- *66 Mb 23 ms Hard Disk*
- *1.2 or 1.44 MB Floppy Drive*
- *1:1 Interleave Hard/Floppy Disk Controller*
- *80387 Socket*
- *2 Serial, 1 Parallel, 1 Game Port*
- *Real Time Clock/CMOS Memory w/Battery Back-up*
- *230W Power Supply & Quality Case*
- *101 Key Enhanced Keyboard*
- *Supports – MSDOS, OS/2, PC-MOS/386, UNIX, XENIX, DR-DOS, Concurrent DOS 386*

Monitor and card not included

NEC MULTISYNC MONITORS

NEC 2A	$459
NEC 3D	599
16 Bit VGA Card 800x600	119
16 Bit VGA Card 1024x768	129

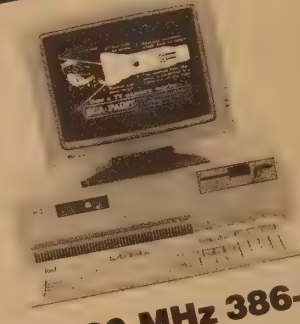
SEAGATE HARD DRIVES

ST225 (20 MB)	$179
ST251-1 (40 MB 28ms)	295

PANASONIC PRINTERS

KXP-1124 24 Pin LQ	$279
KXP-1191 9 Pin	209
KXP-1180 9 Pin	169

$1395



Hi-Q 20 MHz 386-SX SYSTEM

Landmark = 25 SI = 23

with 66 MB HARD DISK

- *1 MB RAM Expandable to 8 MB On-board*
- *66 Mb 23 ms Hard Disk*
- *1.2 or 1.44 MB Floppy Drive*
- *1:1 Interleave Hard/Floppy Disk Controller*
- *80387 Socket*
- *2 Serial, 1 Parallel, 1 Game Port*
- *Real Time Clock/CMOS Memory w/Battery Back-up*
- *230W Power Supply & Quality Case*
- *101 Key Enhanced Keyboard*
- *Supports – MSDOS, OS/2, PC-MOS/386, UNIX, XENIX, DR-DOS, Concurrent DOS 386*

Monitor and card not included

Hi-Q COMPUTERS

by HIQUALITY SYSTEMS, INC.

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Sunnyvale, CA 94086

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(408) 245-3108

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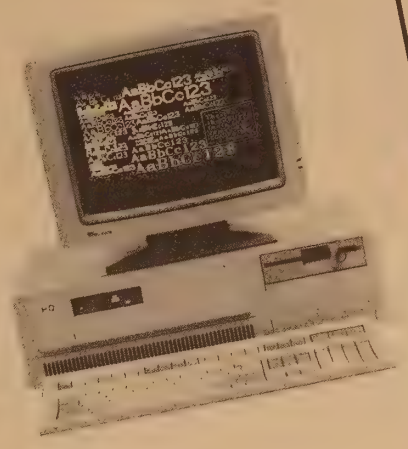
THIS MONTH'S SPECIAL

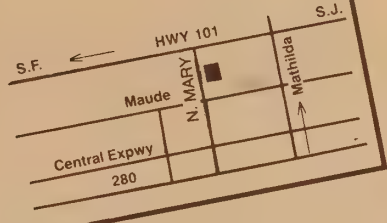
Hi-Q 25 MHz 386 COMPLETE SYSTEM

Landmark = 34.5 SI = 29.5

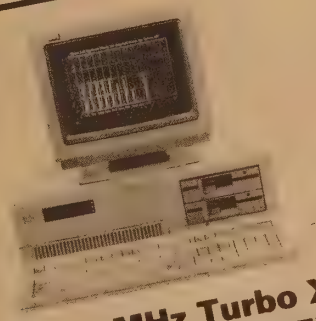
With 66 MB 23 ms Hard Disk



- 1 MB RAM Expandable to 8 MB On-board (384K Shadow RAM Included)
- 66 Mb 23 ms Hard Disk
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave Hard/Floppy Disk ESDI Controller
- 80387 Socket
- 1 × 32 Bit, 5 × 16 Bit, 2 × 8 Bit Slot
- 2 Serial, 1 Parallel, 1 Game Port
- Real Time Clock/CMOS Memory w/Battery Back-up
- 230W Power Supply & Quality Case Holds 5 Drives
- 101 Key Enhanced Keyboard
- Supports – MSDOS, OS/2, PC-MOS/386, UNIX, XENIX, DR-DOS, Concurrent DOS 386



$595



Hi-Q 10 MHz Turbo XT COMPLETE SYSTEM with MONITOR

- 640K RAM On-board
- 2 - 360K Floppy Drives
- Floppy Drive Controller
- 12" Monochrome monitor
- Hercules Compatible Monographics Card w/printer port
- 165W Power Supply & Quality Case
- 101 Key Enhanced Keyboard

WARRANTIES – TERMS POLICIES

- 30 Day Money Back Customer Satisfaction
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- Call for Accessories, Upgrades, and Peripherals
- Nationwide Service Contracts Available

TERMS

- Prices subject to change w/o notice
- prices are cash - FOB our plant
- Shipping, insurance, and COD are extra
- Company Terms on credit approval
- California residents add 7% Sales Tax

POLICIES

Shipping, COD, & Insurance not refundable. Hi-Q has the right to use comparable quality parts as defined. Hi-Q has the option to replace or repair defective parts. Defective parts or equipment must be returned to Hi-Q for warranty freight pre-paid. Returned goods will be refunded within 30 days.

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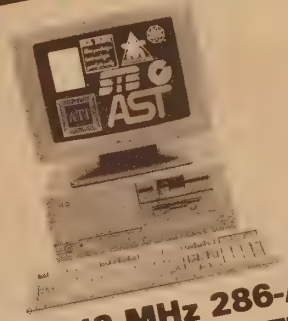

Hi-Q 12 MHz 286-AT COMPLETE SYSTEM

Landmark = 15.9 SI = 13.4

with MONITOR

- 640K RAM Expandable to 4 MB On-board
- 1.2 or 1.44 MB Floppy Drive
- 1:1 Interleave Hard/Floppy Disk Controller
- 12" Monochrome monitor
- Hercules Compatible Monographics Card w/printer port
- Real Time Clock/CMOS Memory w/Battery Back-up
- 230W Power Supply & Quality Case (full or baby size)
- 101 Key Enhanced Keyboard

Hi-Q manufactures and imports only the highest quality parts and equipment

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Phone: (408)433-0200
Specialties:
LANs
Accounting
Desktop Publishing
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
CWT 386
CWT 286
CWT Laptop
In-house experts:
Dave Chang (Networking/Accounting)
Carl Chang (Desktop Publishing)

CRESCENT COM, INC.

Store Manager: Ata Ullah
Address: 3531 Ryder St.
City: Santa Clara Zip: 95051
Other store locations: 690 Market St., San Francisco, CA 94104, (415)362-7120
Specialties:
Novell
3Com
Desktop Publishing
Operating systems supported:
DOS
UNIX/XENIX
OS/2
Best-selling product lines:
Oxford
Samsung
AST
In-house experts:
Ahsan Hamid
Rafi Ullah
Asim Khan
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
We offer free delivery and installation in the Bay Area. 3 months free and on-site service on computer systems, 18-month warranty on Oxford products (parts and labor), extended service contracts

DATA ONE

Store Manager: Rocky Fong
Address: 1887 O'Toole Ave. #C104
City: San Jose Zip: 95131
Phone: (408)434-1002
Specialties:
LANs
Accounting
CAD
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Data Master 386
Data Master 286
Data Master 8088
In-house experts:
Rocky Fong
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year parts and labor warranty

EDIMAX COMPUTER CO.

Store Manager: Danny Hwang
Address: 3020 Scott Blvd.
City: Santa Clara Zip: 95054
Other store locations: Los Angeles
Specialties:
LAN Card
LAN Workstation
Operating systems supported:
DOS
UNIX/XENIX
OS/2
Best-selling product lines:
Edimax Arcnet
Edimax Ethernet
Edimax Workstation
In-house experts:
Danny Hwang
Terry Tsai
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Two-year warranty, 30-day return policy, tech support

ENERGY SALES

Store Manager: Valerie Hines
Address: 2280 Mora Dr.
City: Mountain View Zip: 94040
Phone: (800)822-0801
Other store locations: Redmond, WA 98052
Specialties:
Standby Power Supplies (SPS)
Uninterruptible Power (UPS)
Memory Backup Batteries
Operating systems supported:
DOS
CP/M
OS/2
Best-selling product lines:
Sanyo
Duracell
Safe
In-house experts:
Bob Wilke, Gary Kuusisto, Maria Wooton
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Custom application design of SPS, UPS, and Battery; backup systems for single users and businesses; four application specialists to handle questions; design and support; full-year limited warranty on parts and service

ENTEC SYSTEMS

Store Manager: Mark Mesiti
Address: 3370 Victor Court
City: Santa Clara Zip: 95054
Specialties:
CAD/CAM
LANs
Operating systems supported:
DOS
UNIX/XENIX
OS/2
Best-selling product lines:
Paradise
Seagate
Entec
In-house experts:
Robert Gangemi, MIS
Mark Mesiti, Hardware Tech Support
Don Gangemi, Desktop Publishing
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Two-year parts and labor, on-site service contracts, beat any advertised price, 30-day money-back guarantee

FRY'S ELECTRONICS, INC.

Address: 541 Lakeside Dr.
City: Sunnyvale Zip: 94086
Phone: (408)733-1770
Other store locations: 440 Mission Ct., Fremont, CA 94539; (415)770-FRYS
Specialties:
Wide Selection
Operating systems supported:
DOS
AmigaDOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Epson
Hewlett-Packard
Everex
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Seven-day-a-week service, telephone support, 30-day warranty, over-the-counter exchange on most products

GOLDEN VALLEY TECHNOLOGY, INC.

Store Manager: George C. Shu
Address: 477 E. Evelyn Ave., Suite H
City: Sunnyvale Zip: 94086
Phone: (408)738-4921
Specialties:
LANs
Desktop Publishing
Accounting
Operating systems supported:
DOS OS/2
UNIX/XENIX
Best-selling product lines:
Seagate
NIC
Voltron
In-house experts:
Frank Chen
Frank Hsu
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
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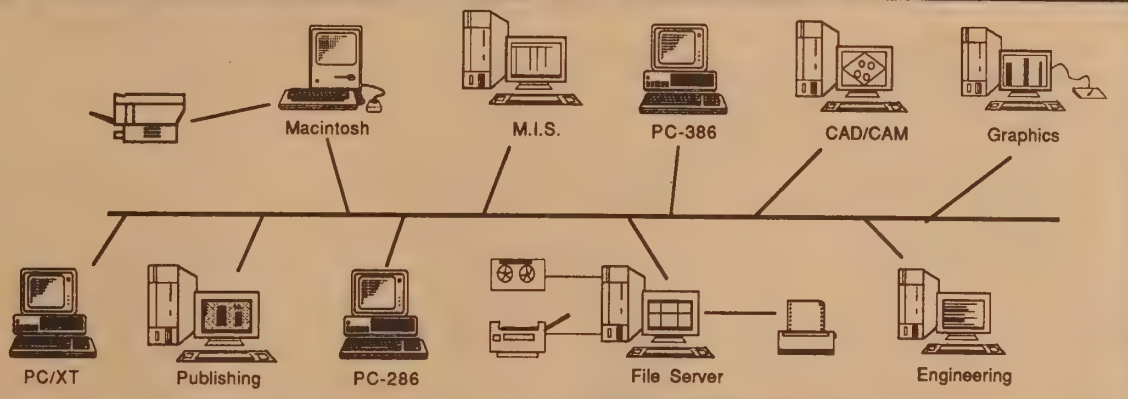

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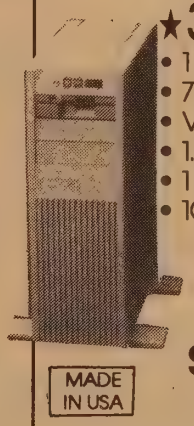

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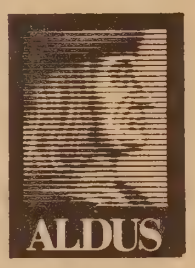

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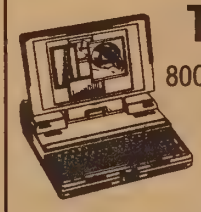

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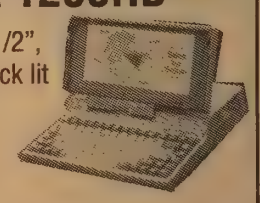

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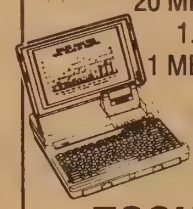

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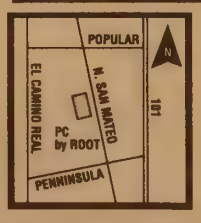

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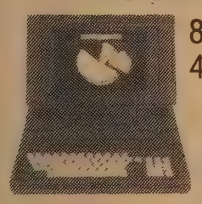

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NEC Multisync 2A 525
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NANAO Flexscan 8060S 555
NANAO Flexscan 8070S 965
Sony 1304 14" Multiscan 1024x768 725
Sony 1320 13" VGA 720x400 525
Seiko CM-1430 Multiscan 1024x768 525

PRINTERS

Star XB-2415, 240 cps, 80 cps $635
Star XB-2410, 200 cps, 67 cps 475
Star XR-1500, 300 cps, 76 cps 475
NEC P2200SX 180 cps, 80 cps 329
NEC P5200 365 cps, 90 cps 499
NEC P5300 265 cps, 90 cps 879
Panasonic KX-P1180 192 cps 38 cps 175
Panasonic KX-P1191 240 cps 48 cps 235
Panasonic KX-P1124 192 cps 63 cps 299
Panasonic KX-P1595 288 cps 61 cps 435
Panasonic KX-P1624 192 cps 63 cps 455
Panasonic KX-P4450 Laser Partner 1350

MODEMS

Evercom 1200 B ..... Internal $72
Evercom 2400 B ..... Internal 125
SupraModem 2400B ..... External 135
Supra Modem 2400B ..... Internal 95
Hayes 2400B ..... External 149
World Port 2400 B ..... External 269
World Port 9600 Fax/Modem 549

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FAX: **(408) 435-8179**

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FOR ORDERS ONLY: 800-969-8177

MIRACLE COMPUTERS

Specialties:
Sale of Clones XT-AT 286+
Computer Accessories
Software
Operating systems supported:
DOS
Best-selling product lines:
Western Digital
NEC
Epson
In-house experts:
Larry Griffin
Matt Vernon
Ray Bellantoni
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
30-day money-back guarantee, 12-month warranty, sales service, tech support, open 7 days a week

JADE COMPUTER

Store Manager: Jay McGowen
Address: 1291 W. El Camino Real
City: Sunnyvale Zip: 94086
Phone: (415)965-7980/(408)745-7980
Specialties:
Word Processing
Engineering/CAD
Desktop Publishing
Operating systems supported:
DOS
CP/M
UNIX/XENIX
Best-selling product lines:
Epson
Panasonic
Jade Computer
In-house experts:
Contact the local store
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Epson service in-house, 90-day service of bad parts, 30-day return policy

JATON CORP.

Store Manager: Vicky Hong
Address: 2391 Zanker Rd., Suite 330
City: San Jose Zip: 95131
Phone: (408)434-6787
Specialties:
Laptops
Desktop Systems
Tower Systems
Operating systems supported:
DOS
OS/2
ProDOS
UNIX/XENIX
Best-selling product lines:
Jaton 286/386 Systems
NEC/Seagate Hard Drive
Jaton VGA 1024 Card
In-house experts:
Meno Lee (tech support)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-yr warranty parts and labor

JEMINI ELECTRONICS

Store Manager:r Joo Wan Kim
Address: 3400 De La Cruz
City: Santa Clara Zip: 95054
Specialties:
Hardware
Operating systems supported:
CP/M
DOS
UNIX/XENIX
OS/2
Best-selling product lines:
CAD/CAM Monitor
NEC CD-ROM
Used Computers
In-house experts:
Joo Wan Kim
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service

LANDMARK

Store Manager: Robert E. Brown
Address: 1142 Pomegranate Ct.
City: Sunnyvale Zip: 94087
Phone: (408)733-4035
Specialties:
Low-cost LANs
Desktop Publishing
386 Utilities
Operating systems supported:
DOS
Best-selling product lines:
LANtastic
Landmark
Larson
In-house experts:
Robert E. Brown
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-line support via PC anywhere

LASER TODAY

Store Manager: Willie Hsung
Address: 1924 Old Middlefield Way
City: Mountain View Zip: 94043
Phone: (415)961-3015
Specialties:
Color-Image Processing
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Casper Monitors
Color Scanners
FAX Card
In-house experts:
Chi-Chen Wu
Willie Hsung
Steven Chiang
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranty, full tech support, in-house training for color-image processing system

LONE WOLF & ASSOC.

Store Manager: Paul P. Tucker
Address: P.O. Box 3502
City: Saratoga Zip: 95070
Phone: (408)736-6431
Specialties:
Data conversion
CAD production
Translators
Operating systems supported:
DOS

MA LABORATORIES

Store Manager: Abraham Ma
Address: 1972 Concourse Dr.
City: San Jose Zip: 95131
Phone: (408)954-8188
Specialties:
LANs
CAD
Accounting
Operating systems supported:
DOS
Best-selling product lines:
Toshiba
NEC
Fujitsu
In-house experts:
Gary Shem
Henry Harvey
Miguel Ramirez
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranty (parts, labor), immediate exchange/replacement, satisfaction guarantee

MARFAM COMPUTER SOLUTIONS

Store Manager: John R. Marler
Address: 6351 Almaden Rd.
City: San Jose Zip: 95120
Phone: (408)997-0140
Specialties:
LANs
Desktop Publishing
Point of Sale
Operating systems supported:
DOS
CP/M
UNIX/XENIX
Best-selling product lines:
NEC
WordStar
QMS
In-house experts:
John Marler
Jay Gerry
Josh Roberts
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Installation and training, unique graphics, OCR scanning of documents

MICRO MARKETING

Store Manager: Nick Doshi
Address: 3249 Stevens Creek Blvd. #100
City: San Jose Zip: 95117
Phone: (408) 296-0653
Specialties:
LAN
Multi-user System
CONTRAC Programming
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
TEAC, Electra
Fujitsu
Relisys
In-house experts:
Irene Crowani
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, tech. support, warranties, return policy, etc.

MIRACLE COMPUTERS

Store Manager: Larry Perea
Address: 780 Montague Expwy, Ste. 202
City: San Jose Zip: 95131
Phone: (408)435-8177
Specialties:
Accounting
Desktop Publishing
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Panasonic
The Complete PC
Microsoft
In-house experts:
Larry Perea
Charles Cheng
Pam Blair
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, training, support, warranties, guarantees, return policy

MOBIUS COMPUTER CORPORATION

Store Manager: Craig Stouffer
Address: 1717 Embarcadero Rd.
City: Palo Alto Zip: 94303
Phone: (415)493-7777 or (800) MOBIUS
Specialties:
Unix Systems (386)
Software Development
Technical Documentation
Operating systems supported:
UNIX/XENIX
Best-selling product lines:
Mobius PWS/25,
Unix Personal Workstation
Interactive Unix, System V
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
All systems are preconfigured and pretested. 30-day 100% money-back guarantee, 15-month complete warranty, specialize in 386 Unix Solutions

NETWORK ASSOCIATES CORP.

Store Manager: Paul Bergman
Address: 720 E. Evelyn Ave.
City: Sunnyvale Zip: 94086
Phone: (408)744-0631
Specialties:
LANs
Desktop Publishing
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Novell
3Com
NAC
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Products integration (turnkey), system integration, training, entended warranty, on-site service, consultation

THE OTHER STORE

Store Manager: Jody Cosenza
Address: 160 E. Virginia St., Ste. 230
City: San Jose Zip: 95112
Phone: (408)274-1222
Specialties:
LANs
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Citizen
Panasonic
Voltron
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-yr parts and labor warranty

THE PC EDGE

Store Manager: Samuel Adicoff
Address: 2590 N. First St.
City: San Jose Zip: 95131
Phone: (408)433-2211
Specialties:
Accounting
LANs
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
NEC

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- 63 cps letter quality
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- 5 resident LQ fonts
- Rear, Bottom, Front & Top paper paths
- Auto paper loading & paper parking
- Push/Pull Tractor & Friction feed
- 2 Year Warranty
- 360x360 dpi

$455

KX-P1191

- "EZ" Front Panel Controls Over 15 functions
- 240 cps
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- 4 Resident NLQ & 2 DRAFT Fonts
- Combines over 4600 Type styles!
- 240x216 dpi
- Adjustable Push/Pull Tractor
- 11.7″ Carriage
- 2 Year Warranty

$225

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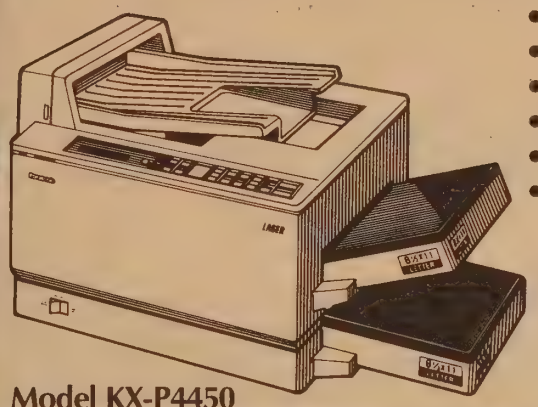

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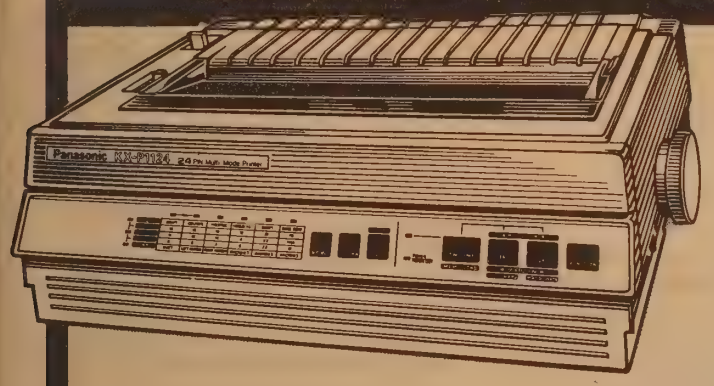
- 11 Pages per Minute
- 2 250 Sheet Paper Cassettes
- 300 dpi resolution
- Five popular emulations
- Front Panel Controls
- 512K RAM

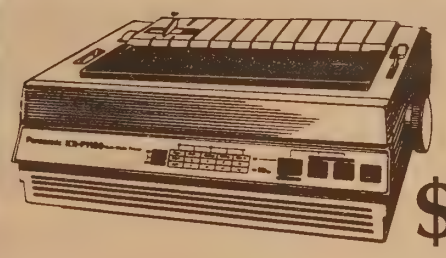
$1349

KX-P1124



$299

- "EZ-Set" Front Panel Controls Over 20 Functions
- 24-Pin For True Letter Quality
- 192 cps
- 63 cps LQ
- 5 Resident LQ Fonts
- Combines Over 5500 Type Styles!
- Rear, Bottom & Front Feed Paper paths
- 360 x 360 dpi
- 2 Year Warranty



$175

- Adjustable Push/ Pull Tractor
- 11.7″ Carriage
- 2 Year Warranty
- "EZ" Front Panel Controls Over 11 Functions
- 192 cps
- 38 cps NLQ
- 4 Resident NLQ & 2 DRAFT Fonts
- Combines over 3400 Type Styles!
- 240x216 dpi resolution
- Paper Park

KX-P1180

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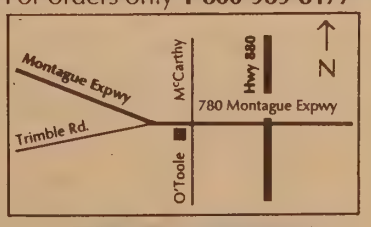

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— Sharon Silva, Restaurant Critic San Francisco Focus Magazine

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Lisa Clark (Networks)
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site training/consulting, net terms on approved credit, on-site service

PC NETCOM

Store Manager: James Diaz
Address: 287 San Jose Ave.
City: San Jose Zip: 95125
Phone: (408)298-2885
Specialties:
LANs
Data Recovery
CAD
Operating systems supported:
DOS
MacOS
Best-selling product lines:
Novell
Microsoft
Ashton-Tate
In-house experts:
James Diaz
Bao Le
Dave Schuman
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On-site support and training

PC WAREHOUSE

Store Manager: Tim Lo
Address: 1082 E. El Camino Real #3
City: Sunnyvale Zip: 94087
Phone: (408)985-1309
Other store locations: 45 stores nationwide
Specialties:
LANs
Desktop
Accounting
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
NEC
Epson
Hyundai
In-house experts:
Louis Wang
Tim Lo
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, support, warranties, training, etc.

R & J SEMICONDUCTOR

Store Manager: Roger/Paul
Address: 2370 Balme Dr.
City: San Jose Zip: 95122
Phone: (408)279-4991
Best-selling product lines:
JC Chips
Macro + Micro Processor
D-RAM Chips
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Support, warranties, guarantees, return policy

RENT-A-COMPUTER, INC.

Store Manager: Ziva Wilson
Address: 4701 Patrick Henry Dr. #1501
City: Santa Clara Zip: 95054
Other store locations: 185 Berry St., San Francisco, CA 94107
Operating systems supported:
DOS
OS/2
MacOS
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Rental and leasing, service, support

SAGA COMPUTERS, INC.

Store Manager: Roger Liao
Address: 333 Cobalt Way #108
City: Sunnyvale Zip: 94086
Phone: (408)735-7242
Specialties:
System Integration
LAN
Operating systems supported:
DOS X
OS/2 X
UNIX/XENIX
Best-selling product lines:
SAGA 386-33 cache system
Full lines of 386 systems
Copam 286M-12 / Chaplet LA-30A laptop
In-house experts:
Roger Liao
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, support, one-year free on-site service for Copam products, one-year parts and labor

SUMMIT MICRO DESIGN

Store Manager: Hank Hsia
Address: 485 Macara Ave. #901
City: Sunnyvale Zip: 94086
Phone: (408)739-6348
Specialties:
Engineering Design
Industrial Control
Accounting
Operating systems supported:
DOS
Best-selling product lines:
Kouwei
Micronic
Mylex
In-house experts:
Hank Hsia
Bu Chin Wang
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Tech support, one-year labor and parts warranty, service contract, return policy, system upgrade

SYSPER TECHNOLOGIES, INC.

Store Manager: Abdul Jaka
Address: 2075 Zanker Rd.
City: San Jose Zip: 95131
Phone: (408)441-6604
Specialties:
LANs
CAD/CAM
Operating systems supported:
DOS
UNIX/XENIX
In-house experts:
Kuolai Sue
Abdul Jaka
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year parts and labor, tech support, assistance with system configuration

TECHNOLAND

Store Manager: Tony Jensen/John Barchie
Address: 2960 Gordon Ave.

CHRISTMAS SPECIAL/HIGH SPEED CAD/CAM SYSTEMS

NEAT WORKSTATION

- L.M.: 56 MHz, SI: 46
- Neat 64K cache plus controller
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- 2 MB RAM on board (exp. to 16 MB)
- 1.2 MB & 1.44 MB floppy drives
- NEC 3D & 1.44 MB floppy drives
- 150 MB, 0.5ms hard drive
- Tower case & 200W p/s & 101 KB

$6595

NEAT 386-33 CACHE

- L.M.: 56 MHz, SI: 46
- Intel 80386-33 CPU
- 64K of 25ns cache RAM on board
- 1 MB ram on board (exp. to 8 MB)
- 1.2 MB floppy drive
- Dual F/H controller
- 101 keyboard
- AT case and 200W p/s

$2495

NEAT 386-25 CACHE

- L.M.: 44 MHz, SI: 31.6
- Intel 80386-25 CPU
- 64K of 25ns cache RAM
- 1 MB ram on board (exp. to 8 MB)
- 1.2 MB floppy drive
- Dual F/H controller
- 101 keyboard
- AT case and 200W p/s

$1825

NEAT 386-25

- L.M.: 33 MHz, SI: 31.6
- Intel 80386-25 CPU
- C&T chip set; AMI Bios
- 1 MB ram on board (exp. to 8 MB)
- 1.2 MB floppy drive
- Dual F/H controller
- 101 keyboard
- AT case and 200W p/s

$1295

NEAT 386-20

- L.M.: 25.6 MHz, SI: 23
- Intel 80386-20 CPU
- 1 MB ram on board (exp. to 8 MB)
- 1.2 MB floppy drive
- Dual F/H controller
- 101 keyboard
- AT case and 200W p/s

$1195

NEAT 386SX-16

- L.M.: 20.6 MHz, SI: 18
- Intel 80386SX-16 CPU
- 1 MB ram on board (exp. to 4 MB)
- Dual F/H controller
- 101 keyboard
- AT case and 200W p/s

$845

NEAT 286-20

- L.M.: 25.6 MHz, SI: 23
- C&T chip set
- Same configurations as above

$840

NEAT 286-16

- L.M.: 20.5 MHz, SI: 18
- Intel 80286-16 CPU
- Same configurations as above

$789

NEAT 286-14

- L.M.: 18.6 MHz, SI: 18
- C&T chip set
- Same configurations as above

$769

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MOTHERBOARDS

- NEAT 386-33 Cache w/CPU $1655
- NEAT 386-25 Cache w/CPU 1189
- NEAT 386SX-16 w/CPU 365
- NEAT 386-25 w/CPU 695
- NEAT 386-20 w/CPU 655
- NEAT 286-20 345
- NEAT 286-12 170

FLOPPY DRIVES

- Fujitsu 369K/1.2 MB $57/75
- Teac 360/1.2 MB 62/78
- Teac 3.5″ 1.44 MB 84
- Fujitsu 1.44 MB 80
- Toshiba 3.5″ 1.44 MB 80

PRINTERS

- Panasonic 1180 ..... $175
- Panasonic 1191 218
- Panasonic 1124 298
- Panasonic 1595 425
- HP LaserJet IIP 1050
- HP LaserJet II 1650
- Star NX-1000 165

MONITORS

- BTC 14″ B/W Flat $99
- Samsung Color 14″ 209
- Relisys EGA 14″ 325
- Nanao 8060H 525
- Nanao 8060S 550
- Nanao 9070S 939
- NEC Multisync 2A 499
- NEC Multisync 3D 609
- Relisys Multisync 425
- Relisys VGA 340

HARD DRIVES

- ST-225 ..... $190
- ST-225 Kits 240
- ST-251-0 305
- ST-252-1 319
- ST-4096 545
- Toshiba 65 MB 395
- WD 42 MB 28ms 1:1 with F/H Card 455

KEYBOARDS

- Mitsumi 101 Key $45
- Keytronic 49
- BTC 101 Key 43
- Maxiswitch 101 75
- Others 38

MISCELLANEOUS

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- Mouse Serial 45
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- VGA 800x600 256K 165
- VGA 1024x768 512K 225
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- 256x9-80 40
- 1 MBx9-100 120
- 1 MBx9-80 125
- 80287-8 190
- 80287-10 218
- 80387-16 335
- 80387-20 360
- 80387-25 520
- 80387-33 620
- 80386-20 225
- 80286-25 285
- 80386-33 385

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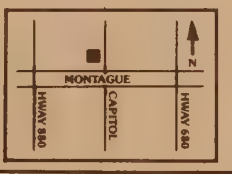

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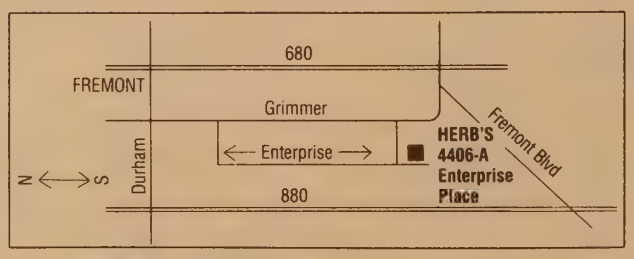
- We buy for less
- We pay ourselves less
- We drive little, old cars
- We don't heat the warehouse
- We pay low rent
- We clean our own store
- We live in modest homes
- We run little, cheap ads
- We don't borrow money
- We think 60 watts is bright enough
- We eat off lunch wagons
- We work long hours
- We don't have an ad agency
- We don't wear clothes you can't wash
- We married gals with cheap tastes

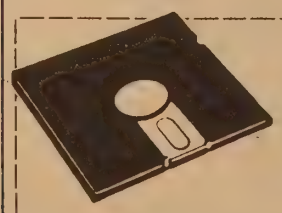
OPEN 7 DAYS A WEEK
Mon-Sat 10-6PM
Sun Noon-4PM

HERB'S DISCOUNT SOFTWARE
4406A Enterprise Place
Fremont, CA 94538
(415) 490-6335



master charge

VISA



CHRISTMAS SPECIAL
5 DISKETTES "FREE"
with any $25 Purchase

To receive your 5 FREE diskettes simply present this coupon at the time of purchase, you'll be given 5, Double Sided, Double Density Diskettes with sleeves, all Diskettes Free of Defects by Herb's Discount Software.
Expires: Dec. 31, 1989
Not Valid With Any Other Offer
Limit One Coupon Per Person

City: Santa Clara Zip: 95050
Other store locations: 1780 Broadway, Redwood City, CA; (415)365-2786
Specialties:
Desktop Publishing
LANs (Novell authorized)
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Panasonic
Seagate
Technoland
In-house experts:
Tony Jensen
John Barchie
George Diaz
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, phone tech support, warranties

VECTOREX CORPORATION

Store Manager: Richard Linn
Address: 881 Salt Lake Dr.
City: San Jose Zip: 95133
Phone: (408)923-3934
Other store locations: Provo, UT
Specialties:
CAD
Engineering Document Management
Scanning and Conversion Services
Operating systems supported:
DOS
Best-selling product lines:
EDM System One
In-house experts:
Richard Linn
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Pickup/delivery, 100% guarantee, consulting, on-site training, on-going tech support

VICTS TECHNOLOGY, INC.

Address: 847 W. Maude Ave.
City: Sunnyvale Zip: 94086
Phone: (408)739-8733
Specialties:
Computer System
Computer Parts
Diskettes
Best-selling product lines:
Victs
Easy Data
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service, guarantees

WESTERN IMAGING

Store Manager: David Krauss
Address: 1117 Independence Ave.
City: Mountain View Zip: 94043
Phone: (415)960-0500
Specialties:
Hi Res Graphics
VGA Imaging
Interactive/Photo Database
Operating systems supported:
DOS
Best-selling product lines:
Truevision
Time Arts
Sharp
In-house experts:
David Krauss
Bill Hood
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
A full service reseller of graphics applications, with working familiarity of all products; we offer training and support of all products, including in-house service

Vallejo/ Sacramento

THE COMPUTER STORE

Store Manager: Daniel Duane
Address: 1870 Fulton Ave.
City: Sacramento Zip: 95825
Phone: (916)972-7678; FAX 972-9865
Other store locations: Mountain View, San Francisco
Specialties:
Local Area Network
Desktop Publishing
Accounting/Database Management
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
Optima
In-house experts:
Daniel Duane
Bernie Lagot
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Free tech support

COMPUTERS FEED AND FUEL

Store Manager: Tom Arnold
Address: 906 Melinda Lane #7
City: Modesto Zip: 95350
Phone: (209)576-2777
Specialties:
LANs
Membership Databases
Accounting
Operating systems supported:
DOS
CP/M
OS/2
Best-selling product lines:
ACER
NEC
Okidata
In-house experts:
Tom Arnold
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Develop and write multi-user membership database/accounting programs

DB: SOLUTIONS

Store Manager: Charles Bleadon
Address: 230 Link Rd. C-300
City: Cordelia Zip: 94585
Phone: 1-800-888-2640
Specialties:
DB: Retailers Advantage, Point of Sale Systems
Operating systems supported:
MacOS
Best-selling product lines:
DB: Retailers Advantage
In-house experts:
Jim Noblitt
Charles Bleadon
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Our Point of Sale system runs on the Apple Macintosh. It provides full on-line control over all P-O-S activities and accounting information. Training on-site or main office, remote site training by high-speed modems, 24-hour toll-free phone support

PRICE — QUALITY — SERVICE — CONVENIENCE

386/25
THE BULLET 386 COMPUTER/SERVER

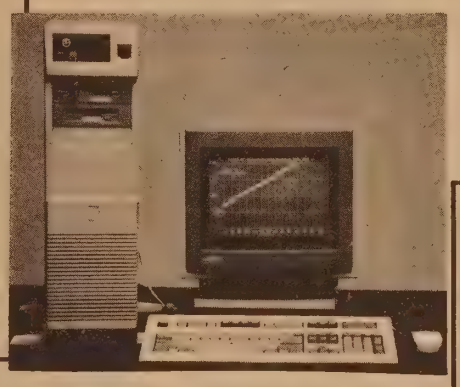
NORTON SI : 31.6MHZ
INTEL 80386-25 CPU
80387 & 80287 SOCKETS
HIGH QUALITY FULL-SIZE CASE
230W POWER SUPPLY
1MB DRAM INSTALLED **$1115**
1.2 MB FLOPPY DRIVE
1:1 INTERLEAVE HD/FD CONTROLLER
2 SERIAL 1 PARALLEL PORTS
ENHANCED 101-KEYBOARD
18 MONTH PARTS & LABOR WARRANTY
SUPPORTS DOS, OS/2, LAN, UNIX, PC-MOS...
TOWER CASE OPTIONAL **+ $120**

386-24 (W/ 80386-20 CPU) **SYSTEM: $1024**

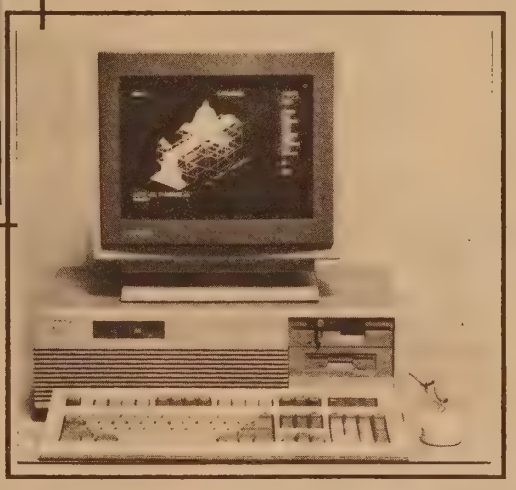
386-16SX SYSTEM : $715 (w/o ser/par port)

- **Unbeatable Price (We'll beat or meet any reasonable offer)**
- **Full 18 months Parts & Labor Warranty**
- **Proven Quality Products**
- **Superior Service & Engineering Supports**
- **Two Convenient Locations To Serve You**
- **Buy Now - Pay Later (On Approved Leasing Program)**

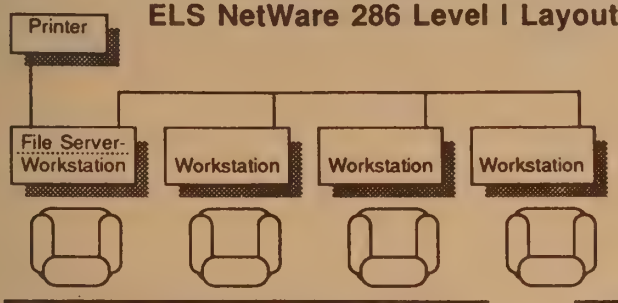
SCHOOLS, CORPORATES, GOVERNMENTS P.O.'S WELCOME
DEALERS, VARS, CONSULTANTS WELCOME.



MERRY CHRISMAS &
HAPPY NEW YEAR TO EVERYONE



ELS NetWare 286 Level I Layout



NOVELL LAN
. LAN expert in system layout, configuration & installation
. Complete networking solutions.
. Thorough training for beginners.
. Satisfaction warranty.

286 -16
The Professional 286 Computer

. Norton SI : 18.7Mhz (Version 3.10)
. High Quality Case
. 230W Power Supply
. 512 KB RAM **$ 539**
. 1.2 MB Floppy Drive
. Floppy and Hard Drive Controller
. Enhanced 101 Keyboard
. Built - in Clock & Calendar
. Supports PC/MS DOS, OS/2, UNIX,
. NOVELL, XENIX, PC-MOS.....
. Mini Tower Case Optional
. **18 Month Parts & Labor Warranty**

. **286-12 System : $499**

Monitor

* Amber Mono Monitor 12/14"	$68/98
* EGA/VGA Monitor 14"	$305/315
* Multiscan Monitor 14"	$425
* NEC and SONY...	CALL

Video Card

* Mono or Color Graphic w/ PP	$38
* EGA/VGA Graphic	$91/150
* Paradise VGA+/16	$179
* ATI Wonder VGA 16	$229

Enhanced Adapter

* AT I/O 1S/1P/1G	$32
* XT I/O 1S/1P/1G/1Clock	$39
* 1200B/2400B Int. Modem	$52/89

Misc.

* Color/Logitech Serial Mouse	$39/62
* Dos 3.3/4.0	$63/65
* Power Strip/Pad	$5/21

Printer

* Citizen 120D/180D	$155/189
* Panasonic	CALL

Drive

* ST 225 - 20mb, 65ms	$189
* ST 251/0 - 40mb, 39ms	$305
* ST 251/1 - 40mb, 28ms	$315
* ST 4096 - 80mb, 28ms	CALL
* TOSHIBA - 44/66mb, 25ms	CALL
* 360kb/1.2mb FD	$56/71
* 720kb/1.44mb FD	$67/76

System Board

* XT/10	$69
* 286/12, 4 mb expd.	$159
* 286/16, 4 mb expd.	$209
* 386/16 SX, 4mb expd.	$299
* 386/24, 2ser/1par, 8 mb expd.	$595
* 386/25, 2ser/1par, 8 mb expd.	$695
* 0-wait state (286/386)	

Diskette Corner
Life Time Warranty

5.25" FLOPPY DISKS

$0.28 DS/DD **$0.65** DS/HD

3.50" FLOPPY DISKS

$0.91 DS/DD **$1.99** DS/HD

Premium Bulk in Lot of 100

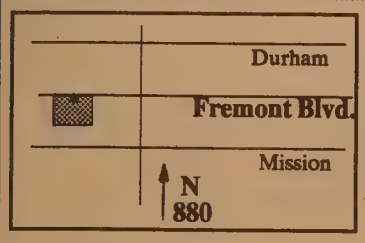
Novell LAN
Proud to Be Novell Authorized

* ELS Level I	$399
* ELS Levell II	$895
* Advanced 286 Netware	$1895
* Arcnet Card (Star/Bus/T.P.)	CALL
* Ethernet Card	CALL
* Active/Passive Hub	CALL
* Cable	CALL
* Connector/Terminator	CALL
* Uninteruptable Power Supply	CALL

The Novell Expert

AT ADVANCED R&D SYSTEMS, Inc., YOU GET THE PROFESSIONAL ATTENTION YOU CAN'T FIND ANYWHERE ELSE.
WE ARE COMMITTED TO SATISFYING YOUR COMPUTING NEEDS.

ADVANCED R&D SYSTEMS
I N C O R P O R A T I O N



Manufacture Sale Center

415 - 657 - 9811

46560 Fremont Blvd. #117
Fremont, CA 94538
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Sat - Sun : 10am to 5pm
Sun : appointment only
2 Locations To Serve You

EFFECTIVE SOLUTIONS
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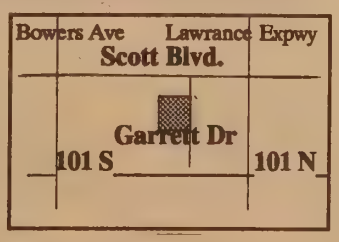
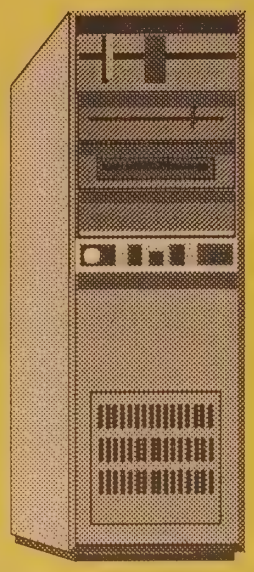
Fax: (408) 496 - 6004



Prices subject to change without notice

★★ SUPER CACHE PERFORMANCE SYSTEMS FROM USM ★★

AMI MkII 386



4 MEG TOWER PACKAGE

AMI Mk II 386-20	$2,150
AMI Mk II 386-25	2,550
AMI Mk II 386-33	3,250

- ★ 4 MEG RAM, 64K CACHE
- ★ TEAC 1.2MB FLOPPY
- ★ 1:1 INTERLEAVE MFM CONTROLLER
- ★ MAXI SWITCH/KEYTRONIC KEYBOARD
- ★ 2 SERIAL/PARALLEL PORTS
- ★ HARD DISK/VIDEO OPTIONAL

MICRONICS Motherboards

386-25 MHz, 4MB **$1,550**

386-33 MHz, 4MB **$2,250**

ORCHID Privilege Motherboards

386-25C, 4MB **$1,690**

386-20, 2MB **$950**

MYLEX Motherboards

MA286-12 øk **$240** MI386-20 øk **$950**
MXS386-16 øk **$440** MJ386-25 øk **$1290**
MWS 386-20/25 **$990/1390**

★ Systems integration at its best. ★ Please call for special prices. ★

Microscience™

HALF-HEIGHT DRIVES
*VOICE COIL * 28MS 40,000 MTBF*

HH1050 42MB, MFM	$355
HH1060 68MB, RLL	375
HH1090 80MB, MFM	575
HH1120 120MB, RLL	645

MiniScribe

3650 40MB, 61MS, MFM	$265
3085 71MB, 22MS, MFM	565
3180E 157MB, 17MS, ESDI	995

MICROPOLIS 1335	$565
MICROPOLIS 1355	$945
MITSUBISHI MR-535	$375
TOSHIBA MK 134FA	$375

CDC IMPRIMIS

CDC-106MB 18MS, ESDI	$895
CDC-182MB 16MS, ESDI	1095
CDC-383H 16MS, ESDI	1795
CDC-766MB 16MS, ESDI	2895
OTHER MODELS	CALL

Maxtor

XT-1085 71MB, 27MS	$565
XT-4170E 155MB, 14MS	1095
XT-4380E 330MB, 16MS	1795
XT-8760E 675MB, 16MS	2895
XT-1140/XT2190	CALL
RXT-800S WORM DRIVE	CALL

VGA GRAPHICS

PARADISE VGA 1024, 512K	$265
VIDEO 7 1024: 512K	265
ORCHID ProDesign Plus	SPECIAL
ATI Wonder, Viewperfect	CALL
ORCHID Designer 800	145
PARADISE Basic EGA	95
PARADISE 16 bit VGA, OEM	175
VIDEO 7 FASTWRITE/VRAM	CALL
RENNAISSANCE, Methens	CALL
STB, Genoa, Verticom	CALL

MONITORS

SONY 1304	$645
SEIKO CM-1430	495
SEIKO CM-1440	CALL
NANAO 9070S	SPECIAL
NEC MULTISYNC 2A	CALL
NEC MULTISYNC 3D/4D	CALL
HYUNDAI VGA 0.31	325
GOLDSTAR/SAMSUNG EGA	325
EVEREX 14" MONO	125
EVEREX EVERVISION EGA	345

★ Western Digital ★ DTC ★ Adaptec ★

WD1006V-MM2	$115	DTC7280	$115	ACB2372B	$175
WD1006V-SR2	$135	DTC7287	$135	ACB2322B	$225
WD1007A-WA2	$245	DTC6280		ACB1540	
WD7000 FASST		AMS 1:1 MFM	$85	ESDI/SCSI	CALL

★ SPECIALS ★ SPECIALS ★ ★ SPECIALS ★ SPECIALS ★

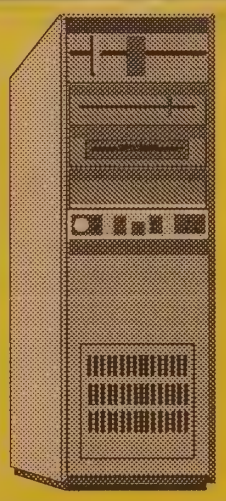
SYSTEM PACKAGE with 68MB FAST HARD DISK

- 68MB HH1060 or MB535
- 1:1 Interleave Controller
- 1.2MB Floppy or 1.44MB 3 1/2" Floppy
- 101 Keyboard
- 2 Serial / Parallel Ports
- 5 Drive Bay Desktop with 230W PS Tower Add $90; Minitower Add $40
- Video Optional: Mono $100, EGA $400, VGA $450

386SX-16	1MB	$1290
386SX-20	1MB	1390
386-20	2MB	1790
386-25	4MB	2190

TOWER 386-33 CACHE

4 MEG RAM, 122MB HARD DRIVE COMPLETE VGA SYSTEM w/ FREE LOGITECH HIREZ MOUSE



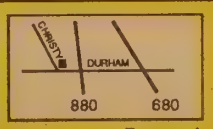
- 386-33 CPU w/385 Cache Controller
- 4MB RAM
- 122MB Hard Disk (HH1120)
- 1:1 Interleave Controller
- 2 Serial / 1 Parallel Ports
- 14" VGA Monitor
- 16 bit VGA Card
- Logitech Hirez Mouse

$3995

USM
USMACH

US MACH SYSTEMS
1101 Grandview Drive
So. San Francisco, CA 94080
415-952-5885
FAX: 415-266-9134

So. San Francisco



Fremont

USM DISTRIBUTORS
43104 Christy Street
Fremont, CA 94538
415-623-9040
FAX: 415-623-7592

Prices subject to change.
Cash prices reflected.
Restocking charge 15%

Everex Step 386 Specials from USMACH

Free MicroSoft or Logitech Mouse for Step 386

PC WORLD BEST BUY

Everex Step 386

Authorized Reseller

Step 386	Cache	RAM
386-33	64K	2 MB, 4 MB
	128K	4 MB, 6 MB, 8 MB
	256K	8 MB, 12 MB, 16 MB
386-25	64K	1 MB, 4 MB
	128K	2 MB, 8 MB
386-20	64K	1 MB, 4 MB
	128K	2 MB, 8 MB

Video Options Special for Step 386

Everex Amber 14″ w/MGP **$155**

Eversion EGA w/Everex or Paradise Auto Starter **$475**

Super VGA 1024x768 Options:

Orchid Prodesign Plus 512K or Video 7 Fastwrite 512K

With NEC Multisync 3D $870
With SONY 1304 Multiscan 890
With Nanao 9070S 16″ 1150

Hard Disk Option Specials for Step 386

MFM

44 MB Microscience HH 1050 . . . $355
80 MB Microscience HH 1090 575
71 MB Miniscribe 3085 545

RLL

68 MB Microscience HH 1060 . . . . $375
122 MB Microscience HH 1120 675
ESDI/SCSI . . . . . CALL

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So. San Francisco, CA 94080
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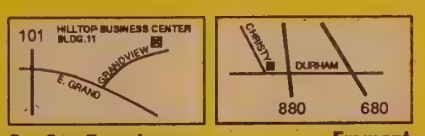

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FAX: 415-623-7592

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Cash prices reflected.
Restocking charge 15%

MicroTimes Northern California Computer Reseller Guide

EDTECH
Store Manager: Dean Bernacchi
Address: 5076 Jessie St.
City: Mariposa Zip: 95338
Phone: (209)966-4998
Specialties:
LANs
CD-ROM
Education
Operating systems supported:
DOS
OS/2
ProDOS
Best-selling product lines:
AST Research
Leading Edge
Laser
In-house experts:
Dean Bernacchi
Diana Gourley
Linda Vineyard
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Novell training and support, on-site service, satisfaction guaranteed or return

H&H COMPUTERS
Store Manager: Roger Hoss
Address: 3400 Bradshaw Rd. A2
City: Sacramento Zip: 95827
Phone: (916)362-4884
Specialties:
Novell Netware
Thomas-Conrad
WordPerfect
Operating systems supported:
DOS
CP/M
OS/2
MacOS
UNIX/XENIX
Best-selling product lines:
Novell Netware
AST Research
Panasonic
In-house experts:
William Holmes
Keith Sakasegawa
Mas Bingo
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
We service and install Novell NetWare Computer Networks

HEATH ZENITH COMPUTERS
Store Manager: Jay Cohn
Address: 1860 Fulton
City: Sacramento Zip: 95820
Phone: (916)486-1575
Other store locations: 70 nation-wide locations
Specialties:
Zenith-Mac
Apple 3270
Novell LAN
Operating systems supported:
DOS
MacOS
UNIX/XENIX
Best-selling product lines:
Zenith
Apple
Hewlett-Packard
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service (carry-in and on-site), on-site training, 1-yr. warranty, nation-wide integration in all environments

IP MICRO
Store Manager: Bert Brendle
Address: 11481 Sunrise Gold Cir-2A
City: Rancho Cordova Zip: 95742
Phone: (916)635-0126
Specialties:
LANs
Business Systems
Desktop Publishing
Operating systems supported:
DOS
OS/2
Best-selling product lines:
I P Micro
Mitsubishi
Toshiba
In-house experts: B. Brendle
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year warranty on hardware, telephone and on-site service and support, general DOS training

THE LISA SHOP
Store Manager: Frank Freeman
Address: 1238 Alice St., PO Box 969
City: Woodland Zip: 95695
Phone: (916)668-5637; FAX (916)668-0950
Specialties:
Networking
Human Resource
Operating systems supported:
MacOS
Best-selling product lines:
Tops
Abra MacDabra
In-house experts: Freeman
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Macintosh repair and support (experts on Lisa/Mac XL)

NORDIC COMPUTERS
Store Manager: Andy Jakobsen
Address: 809B Texas St.
City: Fairfield Zip: 94533
Phone: (707)425-5998
Other store locations: 2170 T&C Commerce Ave., Concord, CA 94520; (415)687-3050
Specialties:
Database Design
Operating systems supported:
DOS
Best-selling product lines:
Nordic Computer
Fortis Printers
Mylex Motherboards
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
One-year parts and labor on all systems

THE PAXTON GROUP, INC.
Store Manager: Bob Day
Address: 11335 Sutter's Fort Way
City: Gold River Zip: 95670
Phone: (916)638-2123
Specialties:
Distribution
Accounting
LANs
Operating systems supported:
DOS
Best-selling product lines:
Novell
Toshiba
WordPerfect
In-house experts: Bob Day; Denise Dahlager
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Consulting, training, complete implementation, support

PYRAMID COMMUNICATIONS
Store Manager: Bob Frank
Address: 2306 J St.
City: Sacramento Zip: 95816
Phone: (916)447-1900
Specialties:
Telemarketing
Operating systems supported:
DOS
OS/2
MacOS
UNIX/XENIX
In-house experts: Bob Frank
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
On/off-site training

RYNO COMPUTER SYSTEMS
Store Manager: Rus Spangler
Address: 4253 Park Rd.
City: Benicia Zip: 94510
Phone: (707)746-6252
Specialties:
Novell LAN
Retail
Medical/Dental Systems
Operating systems supported:
DOS
OS/2
UNIX/XENIX
Best-selling product lines:
DTK
Hewlett-Packard
Panasonic
In-house experts:
Mike Ellison
Steve Kaplan
Bill Giese
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Service 7-days-a-week—phone and repair, classroom and on-site training, on-site service contracts, one-year 100% parts and labor warranty

TNT COMPUTERS
Store Manager: David Truax
Address: 2886 Geer Rd.
City: Turlock Zip: 95380
Phone: (209)668-8062
Other store locations: 1149 Broadway, Atwater, CA; 2801 Geer, Turlock, CA
Specialties:
Desktop Publishing
CAD Stations
Business Systems
Operating systems supported:
DOS
Best-selling product lines:
TNT Computers
Star
Accell
In-house experts:
David Truax
Thomas Truax
Paul Tice
Special value-added services (e.g. service, training, support, warranties, guarantees, return policy, etc.):
Complete service center, training center with ten 286 computers, 1-yr warranty, on-site installation

WESSNER-ANDERSON & ASSOC.
Store Manager: Steve Anderson
Address: 6221 Riverside Blvd. #1
City: Sacramento Zip: 95831
Phone: (916)395-5534
Specialties:
Desktop Publishing
DOS integration
dBASE Development
Operating systems supported:
DOS
CP/M
UNIX/XENIX
Best-selling product lines:
AT&T
Ventura
Microtek
Special value-added services:
Turnkey DOS setup and software integration, full support for all systems and software sold, Ventura, Arts and Letters, Corel, Designer, Artline, Microtek training

Santa Cruz

GUENTHER COMPUTER PRODUCTS, INC.
Store Manager: Don Guenther
Address: 312 Locust St.
City: Santa Cruz Zip: 95060
Phone: (408)458-9404
Specialties:
Word Processing
CAD
MIDI
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
Seagate
Teac
Samsung
In-house experts:
Graham Kenville
Ray Shaffer
Galt Barber
Special value-added services:
90-day replacement warranty, 1-yr repair warranty, tech support all times

NATIONAL PROF. SYSTEMS, INC.
Store Manager: Thomas W. Sullivan
Address: 1348 Commerce Lane #401
City: Santa Cruz Zip: 95060
Phone: (408)425-6525
Specialties:
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MAS 90/State of the Art
dBASE Custom Applications
Operating systems supported:
DOS
UNIX/XENIX
Best-selling product lines:
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Everex
NCR
Special value-added services:
"Turnkey" business solutions, sales, training (on-site or remote), modification, support

WESTERN DIGITAL TECHNOLOGY
Store Manager: Patrick Casey
Address: 100 Santa's Village Rd., Ste. 300
City: Scotts Valley Zip: 95066
Phone: (408)438-5666
Other store locations: Sacramento
Specialties:
Sub LAN and LANs (Turnkey)
Peripheral Sharing Devices
Operating systems supported:
DOS
CP/M
MacOS
ProDOS
Best-selling product lines:
Serial AutoScan Switch
Parallel AutoScan Switch
Universal Data Net
In-house experts: Patrick Casey
Special value-added services:
Two-year warranty, free replacement, free tech support, free upgrade policy, 90-day money-back guarantee

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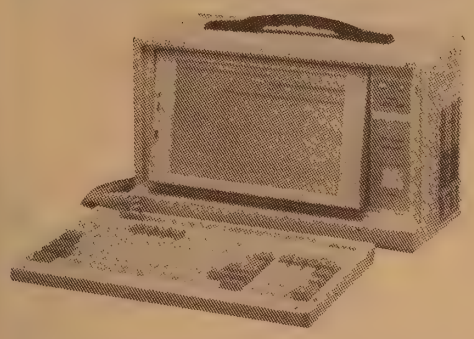
FREE MS DOS WITH 386 SYSTEM PURCHASE!

PORTABLE SYSTEMS W/20 MB HARD DISK



- 640x400 Resolution
- 1 MB On Board
- 1.2 MB Floppy Drive
- Hard/Floppy Drive Controller Card
- 2 Serial & 2 Parallel Ports
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- Other Hard Disks Available
- Optional EGA Display $350

286 12 MHz $1695
386 20 MHz $2250
386 25 MHz $2350

MICRO 386 25 MHz VGA 80 MB SYSTEM

- 1 MB RAM Expandable To 16 MB
- 80 MB Hard Disk
- VGA Monitor
- VGA Card
- 101 Keyboard
- 1.2 MB Floppy Drive
- 1.44 MB Floppy Drive
- 2 Serial, 2 Parallel (2S, 1P, 1G)
- 230 Watt Power Supply
- 1:1 Interleave Controller

$2595

MICRO 286 LAPTOP 40 MB SYSTEM

$2995

- 80286/12 MHz Motherboard
- Super LCD Display (720x400 Resolution)
- 1 MB/4 MB Upgradeable
- 3.5"/1.44 MB Floppy Drive
- 3.5" 40 MB Hard Drive
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- Modem/Phone Port
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- EGA Compatible
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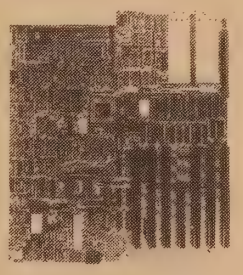
80286 COMPLETE MONO SYSTEMS

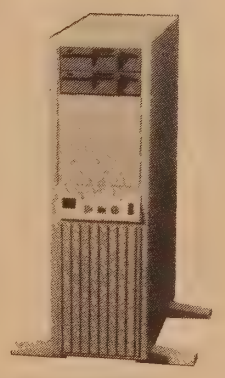
INCLUDES 20 MB HARD DISK
80286-10 . . . . . $895
80286-12 945

MICRO-STAR 386-33 MHz 80 MB w/64K CACHE VGA SYSTEM

PERFORMANCE LM = 55.6 MIPS = 7.5



- 1 MB RAM/8 MB Upgradeable On Board
- 64K High Speed Cache RAM
- 80 MB Hard Disk
- 1:1 Interleave HD & FD Controller
- 16 Bit VGA Controller Card
- High Quality VGA Monitor
- Tower Case + 230 Watt Power Supply
- 1.2 MB 5¼" Floppy Drive
- 1.4 MB 3½" Floppy Drive
- 2 Serial/2 Parallel Ports
- 101 Enhanced Click Keyboard
- 80387 Math Co-processor Socket
- MADE IN THE USA



$3995

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Fax: (415) 750-0649
Mon-Sat: 10am-6pm
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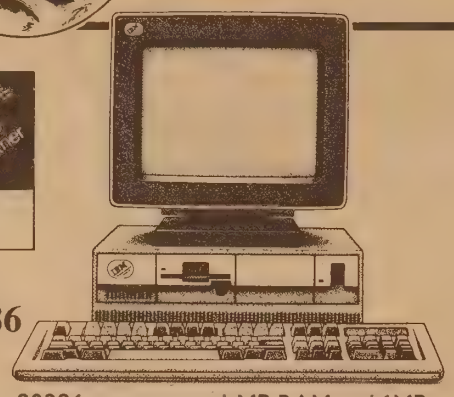
WHOLE EARTH ACCESS



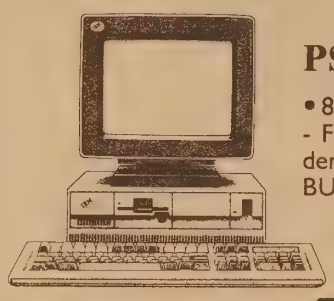
IBM Business Partner
Authorized Advanced Products Dealer

PS/2 30-286

• 10 Mhz 80286 processor • 1 MB RAM to 16MB RAM • 1.44 MB floppy drive • VGA graphics on board

Berkeley/San Jose only. Monitor extra

1299.



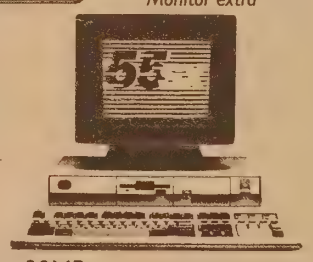
PS/2 50Z

• 80286 • 0 wait state - FAST! • 1.44 high density drive • MCA BUS • 30 MB

2295.

Monitor extra

Over $500 worth of FREE SOFTWARE w/purchase of PS/2 25, 30, 50, or 55 SX



PS/2 55SX-31

• 80386SX 16Mhz processor • VGA on board • 2MB RAM expandable to 16MB • 30MB IBM hard drive

2499.*

**After manf. rebate. Monitor extra*

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WHOLE EARTH COMPUTER SYSTEMS

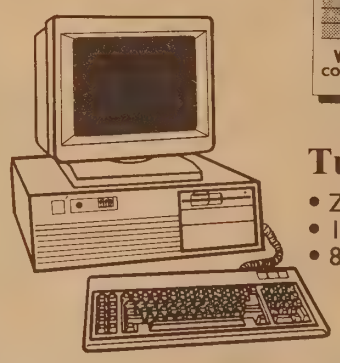
PRICE REDUCTION!!

Super 386/20Mhz

• 1 MB RAM • 1.2 MB FD, 101 keyboard • True 20Mhz CPU • 1:1 hard drive controller

Lowest Price Ever **1299.**

Monitor extra



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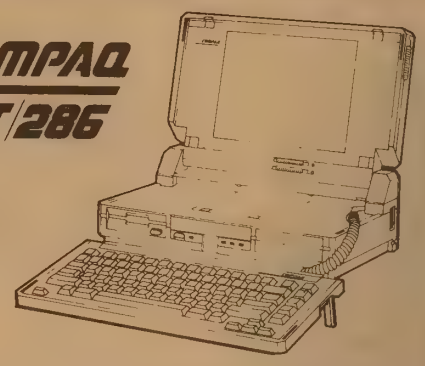
Turbo 286

• Zero wait state • 1.2 MB FD • 8 expansion slots

Lowest Price Ever **749.**

Monitor extra

COMPAQ SLT/286



Model 20

• 16-bit 80C286 12Mhz processor • 640K RAM expandable to 3.6 MB 1.44 MB floppy/20 MB HD

3799.

COMPAQ DESKPRO 386s

Model 1

Built around the revolutionary 386SX processor, the DP386S delivers 386 performance at a non-386 price. VGA graphics are built in. 16Mhz CPU speed.

Monitor extra **2399.**

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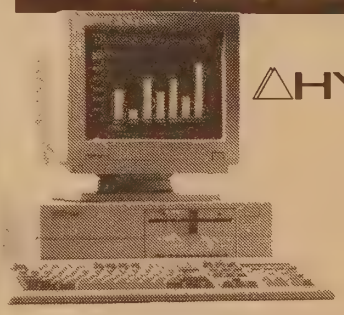
MORE NAMES & MORE SELECTION

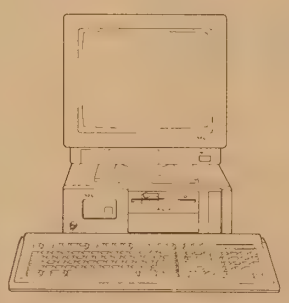


HYUNDAI

Hyundai XT Compatible

• 640K RAM • IFD 360K • DOS, I/O • Dual mode graphics card

Monitor extra **499.**



NEC

PowerMate 286

• 10Mhz processing speed • Up to 16MB main memory • 4 full-size expansion slots • Standard MS-DOS® operating system

Monitor extra **849.**

COMMODORE AMIGA 500

Whole Earth has brought in the Amiga computer by Commodore, and already has become the Bay Area's best Amiga dealer. Come see this amazing computer, on display in all of our locations.

• Excellent color graphics - 4096 colors • Includes mouse • 68000 Motorola CPU powerful!

Monitor not included **549.**

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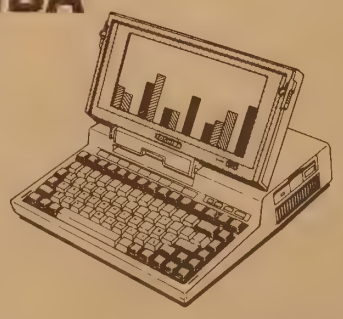
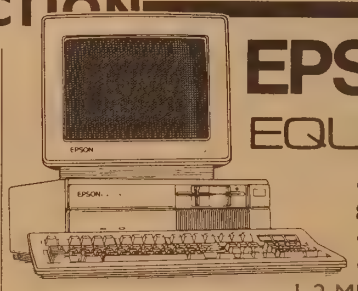


T1000 Laptop

• Weighs less than 7 lbs. • Operating system built into ROM • 720K floppy drive

629.

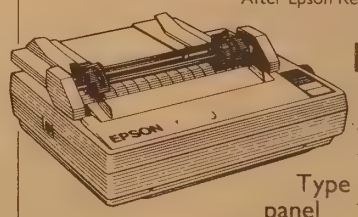


EPSON® EQUITY™ II+

• Powerful 80286, 12 Mhz • 3.3 DOS • 640K RAM and 1.2 MB floppy • Built in serial and parallel port

Monitor & card extra
**After Epson Rebate*

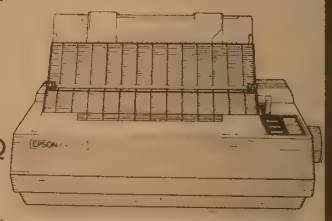
949.*



LX-810

• With SmartPark™ • 200 CPS draft • Selec-Type control panel

199.



FX-850

• 9 pin dot matrix • 264 draft 54 NLQ • 80 column • Push tractor, paper park for single sheet feed optional single bin sheet feed and envelope feed

399.

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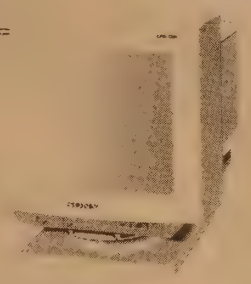


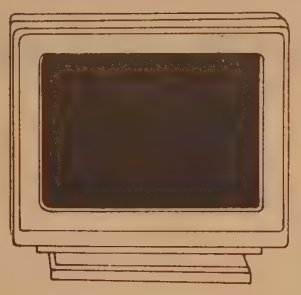
1320 VGA Monitor

- VGA color monitor
- Analog input • .25mm Aperture Grille

499.

NEC

MultiSync 3D



The NEC 3D is one of the best multiscan monitors made.
1024 x 768K resolution means you can use sophisticated Super VGA software and hardware with this screen.

649.

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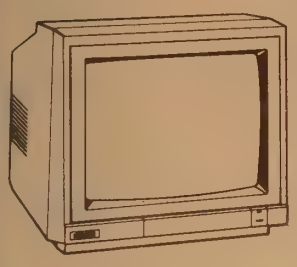

9CM043

- EGA monitor
- Perfect for home or business use
- CGA compatible
- Famous Magnavox quality

Get into high resolution color at a low price!

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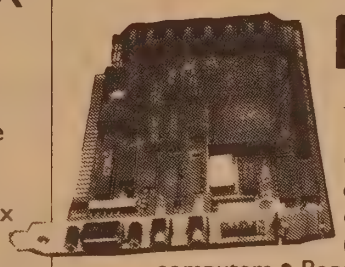

VGA Plus 16

• 256K RAM • Fully compatible VGA output • For 16 bit (standard bus) computers • Popular drivers for super VGA applications

329.

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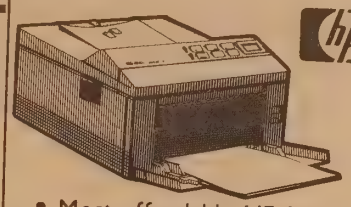

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• Most affordable HP LaserJet printer • Publication-quality output • Same wide range of HP LaserJet software and font support • Backed by HP's reputation for reliability and support

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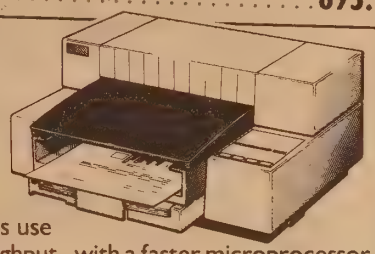
Deskwriter . . . . . **895.**

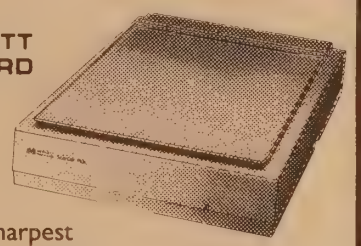


Deskjet Plus Printer

• Ideal for office/business use • Faster throughput - with a faster microprocessor • Built-in landscape now contains four fonts that can be selected through the front panel • Now offering 10 internal fonts up to 30 point size

749.

HEWLETT PACKARD



ScanJet Plus

• 256 levels of gray for the sharpest image resolution • Compact, flatbed design for bound and loose documents • Interface kits available for both PC and Macintosh

1295.

Interface kits for PC/Mac . . . . . **459.**

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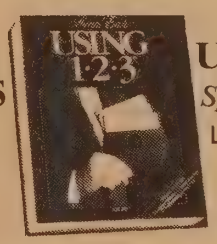

Using 1-2-3 *Special Edition*
List $24.95
21.95

Macinotosh Bible
List $28.
24.95

ACCESSORIES

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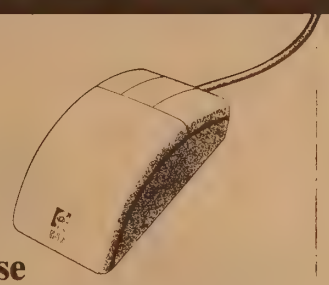


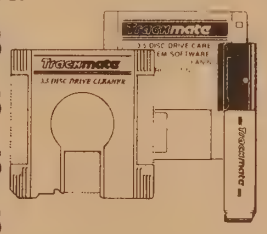
Logitech Mouse

Latest version! redesigned ergonomic case for easy and comfortable use. Serial version plugs into your CPU's serial port; bus version has special user-installable interface card. Three button design is great for a host of CAD and scientific applications.

99.

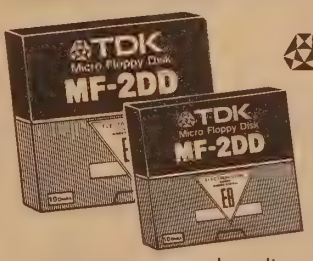
Trackmate

The world's first true disc drive care system. The Trackmate system assures confident user friendly care or your delicate drive.



IBM PC 5¼"	29.95
IBM PC 3½"	39.95
IBM at 5¼"	44.95
Macintosh	39.95

TDK



Floppies

Electron Beam cured binder produces stronger, more permanent bonding of magnetic particles.

5¼" Floppy Disk DS/DD	3½" Floppy Disk DS/DD
ea. 49¢	ea. 89¢

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FullWrite Professional	249.
MacRecorder	169.
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PC Tools Deluxe/Mac	64.
Reader Rabbit	44.
Math Rabbitt	44.
Dark Castle	33.
Beyond Dark Castle	33.
Microsoft Word 4.0	269.
Microsoft Works	209.
Microsoft Excel 2.2	269.
Disk Fit	90.
Calendar Maker	40.
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DOS SPECIALS

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Microsoft Works 2.0 (new)	119.
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WHOLE EARTH COMPUTERS

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Authorized Service

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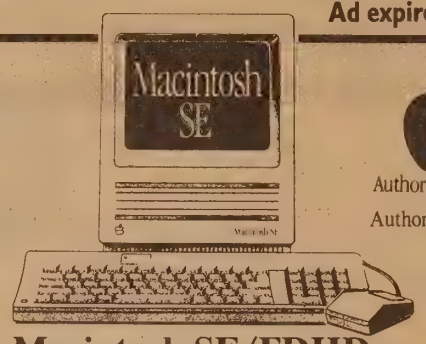
The Macintosh SE/30 is the highest performance compact Macintosh. This computer combines the original Macintosh design with the latest microprocessor technology. The Macintosh SE/30 includes the Apple FDHD SuperDrive, 1 MB RAM, Multifinder and Hypercard. M5392

*After rebate Keyboard extra **2945.***



Authorized Dealer
Authorized Service

Macintosh SE/FDHD

The Macintosh SE offers faster access to files and applications, and an expansion slot. The Macintosh SE includes two Apple FDHD SuperDrives, 1 MB RAM, Multifinder and HyperCard. M0029LL/A

*After rebate Keyboard extra **1745.***

Macintosh Plus

The Macintosh Plus is the most affordable Macintosh computer. Perfect for the small business and student looking to organize essential data. Comes complete w/1-800K drive, 1MB RAM, keyboard, mouse, MultiFinder and HyperCard. M5880 *After rebate **995.***

Apple's Cash Back offer is valid from October 14, 1989 to December 31, 1989. All products may not be available at all participating authorized Apple resellers. Certain restrictions apply. Rebate offer is subject to strict compliance with the Terms and Conditions of Apple's Cash Back Offer. See us for details.

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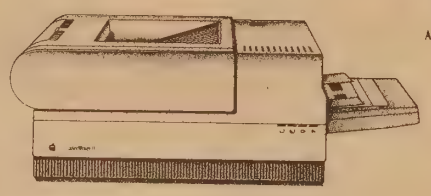
PRINTERS



Authorized Dealer

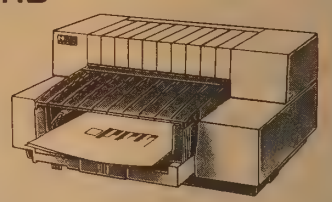
Laserwriter II NT

With 35 internal fonts, 2 MB RAM, and Postscript, the Laserwriter II NT yields professional quality documents quickly and easily. **3495.**

Imagewriter II

Whether you're printing your novel or a note to Mom and Dad, the Apple ImageWriter fills the bill. It's easy to hook up to any Apple Computer system. **469.**

HEWLETT PACKARD



DeskWriter Printer

The new Hewlett-Packard DeskWriter printer brings laser-like quality printing to the Macintosh line of computers at an affordable price. This printer is easy to install and works seamlessly with your Macintosh equipment. **995.**

VIDEO

Lapis

DisplayServer SE

Let your Macintosh SE "talk" to standard 14" monochrome monitors! Fits in SE's slot. Serves most VGA and multiscanning monitors, too! Increases work space and lets you work "across" the standard Mac screen and the add-on monitor. **379.**

radius

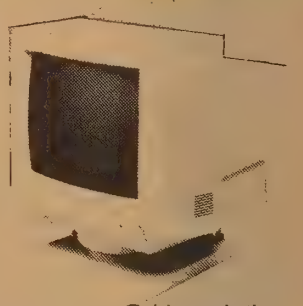
Full Page Display w/Interface Card

For Macintosh

Perfect for desktop publishing, CAD, graphic artists, and many other business and art applications.

ON DISPLAY

MAGNAVOX



9CM080

• Excellent hi-resolution graphics when used with Macintosh II graphics system • Cable and tilt-swivel included • Magnovox means great value and quality **599.**

DRIVES

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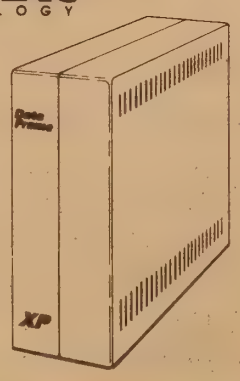
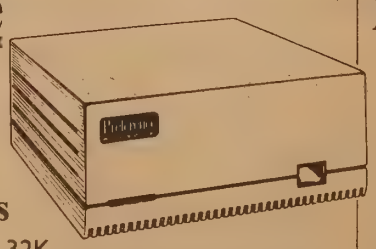


Hard Drives XP30

• High-speed SCSI external drive • 30 MB storage capacity • Includes cable, SuperSpool and other utility software • Easy to set up **649.**

Preference WESTERN DIGITAL

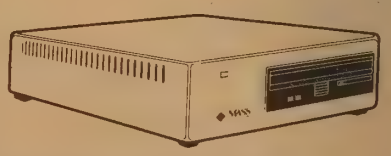


Western Digital Hard Drives

• New for '89! • 32K of caching and 1:1 interleave ensures the highest possible performance • The Preference Series drives are small, sleek and perfect for your Macintosh Plus/SE/II system • 20 MB version **549.**

DATA PAK

MASS microsystems POWER2 EXPAND!™



Mass Microsystems Data Pak

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• Sophisticated utility software
• Fast access time **1399.**

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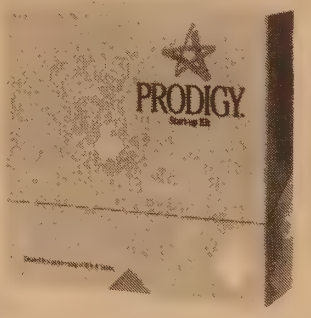

CALCULATORS

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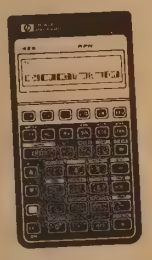
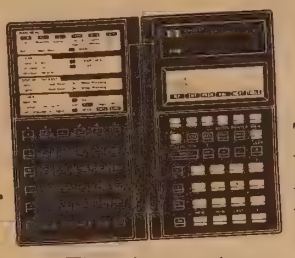


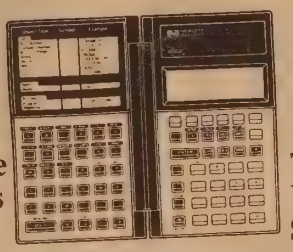
Business Calculator 17B

Business calculator for professionals. Algebraic entry system. **79.***



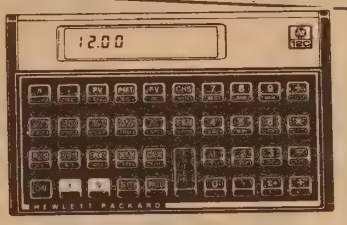
The Ultimate Business 19B

The ultimate business calculator for professionals. Algebraic entry systems. **139.***



The Ultimate Scientific 28S

The ultimate scientific calculator for math and engineering students. RPN entry system. **189.***



Financial 12C

Financial calculator for real estate and financial professionals. RPN entry sytem. **84.95**

**Price after manufacturers rebate.*

HOME/OFFICE

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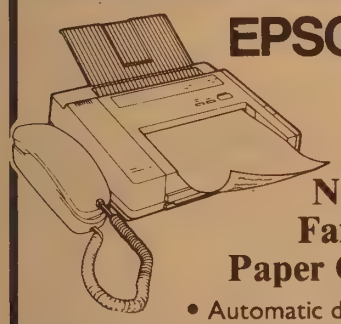
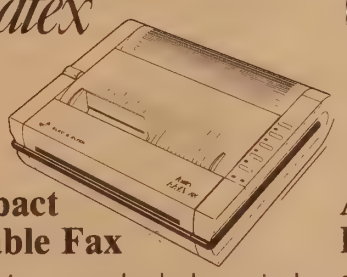


Newest Fax with Paper Cutter

• Automatic document cutter separates pages as you receive them • 5-page automatic document feeder • 20 telephone number memory • 3 levels of resolution includes an 8-shade gray scale **799.**

Avatex



Compact Portable Fax

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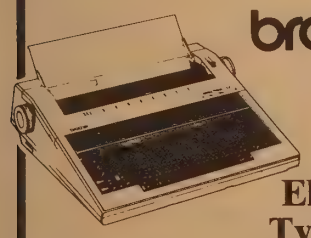
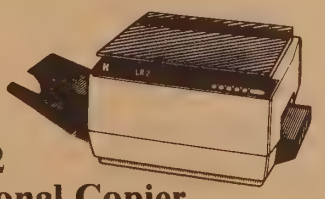
brother



Electronic Typewriter

• Full line lift-off correction memory • Auto "Word-Out" & "Line-Out" correction system • 12" paper capacity • Variable pice and elite pitch typing **149.**

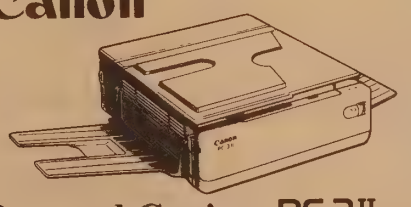
RICOH



LR-2 Personal Copier

• 8 copies per minute • 100 sheet paper cassette • Copies in 4 colors with optional color cartridges **649.**

Canon



Personal Copier PC-3II

• Portable and convenient • PC mini cartridges provide virtually maintentance free performance • Copies in five colors with optional PC mini cartridges **399.**

Panasonic

Personal Word Processor

with Built-In Mail-Merge

• 9" screen with 80 character x 25 line display • 3.5" floppy disk drive w/353K memory • Letter quality daisywheel printer with 12" carriage • 63K Accu-Spell™ Plus correction system **549.**

Limited quantites

The First Annual MicroTimes Semi-Free-For-All Writers' Poll

As those of you who've been with us for a while can attest, our writers are a diverse and opinionated lot. They also spend a lot of time ferreting out obscure but wonderful products, not to mention hours and hours working with well-known ones.

So we figured all that knowledge shouldn't go to waste. We asked our contributors for their five favorite hardware and software products available during 1989. In classic diverse and opinionated fashion, they came up with various picks, and various numbers thereof. Some contented themselves with naming a few products; others wrote mini-reviews. Some sent faxes; some sent email; Dvorak, ever one for the dramatic, phoned his list in from Moscow.

While the writers' choices reflect a wide variety of tastes, applications, and machine types, there were some clear favorites. In the PC world, **DESQview**, **WordPerfect** (in various incarnations), **Hewlett-Packard** printers, the **Battlehawks 1942** game from Lucasfilm, Borland's **Turbo C** and **Paradox**, Lotus's **Magellan**, and Microsoft **Word 5.0** all scored high marks. Mac users sang the praises of the **SE/30**, the **IIcx** and the **IIci**, wished the wonderful **NTX LaserWriter II** were cheaper, and generally showed a wide range of taste in the matter of word processors, with **Word 4** leading the pack. Other popular Mac products included Symantec's **SAM** and **SUM** utilities, Microlytics's **GOfer** and Claris's **FileMaker.** The **NeXT** workstation wowed 'em, speed communicators loved those **Telebit 9600 baud modems**, and Amiga users continue to rave about **Deluxe Paint III** and **DigiView.**

So here it is, folks, our first annual compendium of writer recommendations. We hope you find it enjoyable and useful.

—eds.

SUE ALBERT

HARDWARE:
(All products for Amiga)
A-Max
RediSoft
Macintosh emulator for the Amiga—choice without sticker-sting.

Digi-View Gold
NewTek
Simply standard studio equipment for Amiga.

The Super Agnus Chip
Commodore
Improved graphics chip for the Amiga, proving "fatter" can be beautiful.

The Bit Knitter
Cochenille
Knitting machine interface. Stunning! Knit any Amiga graphic image instantly.

All the new professional quality video hardware
Now that we have it, watch our dust!

SOFTWARE:
(All products for Amiga)
Deluxe Paint III
Electronic Arts
The first program mentioned by Amiga users.

Photon Paint 2.0
Microillusions
HAM mode paint package for Amiga. Sheer magic with the rainbow.

Elan Performer
Elan Designs
Gives great user interface to the Amiga.

Icon Magic
Glacier Technologies
Power and good docs for the littlest Amiga images.

SimCity
Maxis
Should be mandatory.

ROBERT D. ATHEY, JR.

SOFTWARE:
(All products for MS-DOS)
Batchmaster Plus
Formulation database

SpinRite
Hard disk utility

ScreenExtender
For *WordStar*

Virus Guard
Virus checker

FluShot
Virus blocker

LENNY BAILES

HARDWARE:
(All products for MS-DOS)
All Chargecard
All Computer Systems
This is a small board which converts all accessible RAM on an 80286 machine into pageable LIM 4.0 memory. It works with conventional and

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386/20MHz

- 80386-20 CPU
- 1 MB RAM Expandable to 8 MB on M/B
- Socket for 80387
- Real Time Clock
- 1:1 Interleave HFDC
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Keyboard
- 1.2M Floppy Drive
- Supports MS DOS, OS/2, Novell, Unix, Xenix

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* Monitor and card extra

386 SX/16 MHz

- 80386-20 CPU
- 1 MB RAM Expandable to 8 MB on M/B
- Socket for 80387
- Real Time Clock
- 1:1 Interleave HFDC
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Keyboard
- 1.2M Floppy Drive
- Supports MS DOS, OS/2, Novell, Unix, Xenix

$1099

* Monitor and card extra

386/25MHz + 64K cache

- 80386-25 CPU
- 1 MB RAM Expandable to 16 MB RAM
- Socket for 80387
- Real Time Clock
- 1:1 Interleave HFDC
- 2 Serial, 1 Parallel, 1 Game Port
- 101 Keyboard
- 1.2M Floppy Drive
- Supports MS DOS, OS/2, Unix, Novell

$1999

* Monitor and card extra

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80286 Systems - 10 MHz

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IBM PS/2 Portable P70/386	In Stock

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DESKPRO 386-20E, 1MB, 1.2 DR	NEW
DESKPRO 386S/16 Model 40, 1MB	LOW
DESKPRO 386/25, Model 110, 1MB	PRICES!
DESKPRO 386/33 **All Models Available**	

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ATI Wonder VGA 640 x 480	175

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80287-6-8-10	155/229/279
80387-16-20-25	429/489/545

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HP 7475A Plotter w/RS232C/HPIB Interface w/o cable	1399
HP 7550A Plotter w/RS232C/HPIB Interface w/o cable	2899
HP Laser II/IIP	1649/995
HP DeskJet Plus	695

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EPSON LQ 2550/DFX 5000	975/1495
EPSON LQ 500/510 24 pin 80 col 180 cps	319/349
EPSON LQ 850/1050 24 pin 80 col 264 cps	539/749
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OKIDATA 320/321	345/475
OKIDATA 390/391	In Stock
NEC P2200 24 pin 80 col 170 cps	369
TOSHIBA P321 SL, 24 Pin 80 col 216 cps	435
DICONIX 150P/300	325/469
EXPRESSWRITER 301/311	319/419
IBM QUIETWRITER III	1125

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EVEREX 1200/2400 Baud Int	89/169
HAYES Modem 1200B Int w/SW or Ext	289
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extended memory on the motherboard and extended memory on add-in expansion cards. It can also allow you to run many applications in an environment that provides 960 K of conventional system memory.

KeyTronic XT-AT 101-Key Keyboard
KeyTronic
This keyboard bears no specific model number, but is sold at most computer swap meets for $50 or less. It has a light, soft touch with springy key action. There are the usual 12 function keys across the top, three LED lights, and 101-key layout including two Alternate and two Control keys.

Toshiba ND356 3 1/2" 1.44 meg floppy drive
Toshiba
This floppy drive is usually sold for under $100. It can be installed as either 720 K or 1.44 Mb (if your system supports 3 1/2" high density drives). It will read and write both disk formats, and comes with a mounting kit for 5 1/4" drive bays. The manual is clearly written, and the drive is easy to install.

SOFTWARE:
(All products for MS-DOS)
DESQview 2.2
Quarterdeck
Nuts like me want to be able to simultaneously upload and download files, be writing an article, and have a DOS window open to test software. *DESQview* is 95% as faithful as the DOS operating system itself, allowing me to do several things at the same time and easily switch back and forth among them.

WordPerfect 4.2
WordPerfect
Now sometimes referred to as "classic" *WordPerfect*, this word processor runs in as little as 200 K of memory and performs many functions slightly faster than the enhanced 5.0 release. It can be run easily on a two-floppy system, and is free of some of the problems 5.0 has in handling very large documents.

DOG (DiskOrganizer) 206
G. Allen Morris
This shareware disk organizer outperforms some of its commercial cousins. It does its work quickly and reliably, and alerts me to any problems on the hard disk before beginning.

Procomm +
DataStorm
Running with *DESQview*, *Procomm +* is dependable and user-transparent. I use it to communicate, upload and download files, and capture online sessions in the foreground or background, without having to think about what I'm doing.

Keyrepet
This little shareware utility speeds up the typematic keyboard rate, and unlike its commercial cousins, appears to be compatible with every program I've ever used. It takes up less than 1 K of memory, and provides enormous psychological relief to a fast typist watching the letters pop up on screen. It has 26 selectable speeds.

JOHN PERRY BARLOW

HARDWARE:
Macintosh SE/30
Apple Computer
I've developed such a festering anti-Apple prejudice that I hate to extend them the credit they're due for the SE/30. Nevertheless, there's simply nothing wrong with it but the price. (Oh, I suppose it could still be faster...) There's nothing revolutionary about it either, but it is highly evolved. I especially like the Quantum 80 Mb internal hard drive. This disk is so fast that *Disktimer II* claims it has an access time of 0 deciseconds.

Avatex 2400 baud modem
Avatex
This mail order modem is a great deal. Available in catalogues for as little as $170, it is as fast and as reliable as a Hayes 2400.

Radius Full Page Display (with Radius SE/30 interface)
Radius
The SE/30 is definitely the way to drive a Full Page Display. Even full-size documents scroll almost as rapidly as they would on a text-based machine.

LaserWriter II NTX
Apple Computer
If you can figure out how to afford one, you'll never regret the expense.

GCC WriteMove Printer
General Computer
This thing is about the size of a Danielle Steel hardbound, makes no noise at all, uses outline fonts, and, with an SE/30, is faster than an ImageWriter. The only drawback is one it shares with its cousin, the Personal Laser Printer: it uses the Mac processor to create its page images. Therefore, if your Macintosh doesn't have a hot chip and a lot of memory, printing will seem like Purgatory.

SOFTWARE:
(all for Macintosh)
QuickDEX
Green, Inc.
This free-form database DA works like a Cuisinart on Dexedrine. I have over 1,000 names, addresses, and phone numbers in my *QuickDEX* file. I can type a few letters of a name (or address, or city) and have it onscreen before my return key is all the the way back up. Hit another key and it dials the number. Most folks probably use *QuickDEX* as I do, as an instantaneous Rolodex analog and phone dialer. However, you can store in it any text you like. And it makes using *HyperCard* for addresses feel like using the Queen Mary to pull water skiers.

MacMoney 3.02
Survivor Software
Another great little program by another great little company. It is so powerful that it would meet all but the payroll requirements of most small businesses, and it's so easy that it even renders accounting intuitive.

Word 4.0
Microsoft
There's no such thing as a good word processor, but in this terribly imperfect world, *Word* still seems better than the rest of them. Or is it just the Devil I Know? (Actually, if I trusted *FullWrite Professional*...)

Smartcom II 3.0
Hayes
Powerful and easy. It may lack capabilities which one might find in *MicroPhone II* or *Red Ryder*, but they apparently aren't anything I need in my fairly extensive modeming. Its little animated telephone is awfully cute, but I don't know whether I mean that as criticism or praise.

SoftPC 1.21
Insignia Solutions
Seeing Lotus *1-2-3* form a graph on my Mac screen gives me a perverse thrill. Sort of like watching animals of different species have sex. Nevertheless, there is a practical reason for it.

WRITERS' PICKS

The Best PC Software

DESQview (Quarterdeck)

Word 5.0 (Microsoft)

WordPerfect (WordPerfect)

Magellan (Lotus Development)

Turbo C (Borland)

Battlehawks 1942 (Lucasfilm)

Excel (Microsoft)

NetWare (Novell)

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Many of my friends and favorite nonprofits still stagger through the darkness of DOS. I didn't want to keep a clone around just so I could help them up the Eiger-like learning curve imposed by their false economy, so I use *SoftPC*. It's slow, running on my SE/30 at about the speed of a 4.77 MHz PC-XT. But it works very reliably and does so without any hardware. Also, Insignia has the most alert, enthusiastic, and knowledgeable support personnel I've ever encountered. Even though I was initially running *SoftPC* on an unrecommmended machine (an accelerated Plus), they attacked my every problem as though they were killing snakes.

ROB BEAUCHAMP

HARDWARE:
Pocket Modem
Migent

SOFTWARE:
PageMaker 3.0 (Macintosh)
Aldus

Word 5.0 (PC)
Microsoft

Illustrator '88 (Macintosh)
Adobe

Battlehawks 1942 (PC)
Lucasfilm

Zak McKraken (PC)
Lucasfilm

JOHN COWAN

SOFTWARE:
(All for PC)
Brief v. 3.0
Solution Systems
The programmer's friend. A very fast, powerful, customizable programming editor, distinguished by its multiple file handling and comprehensive undo features.

XyWrite III Plus
XyQuest
The fastest full-featured word processor on the block.

Magellan v. 1.0
Lotus Development
Salvation for anyone who must locate, organize, and gain quick access to data in numerous program formats.

Sourcer v. 1.72
V Communications
A fast machine language disassembler for the Intel 808X architecture, with a comfortable program interface and fully usable output files.

Turbo C v. 2.0
Borland International

JOHN D. DVORAK

HARDWARE:
Telebit T-1000 9600 baud modem
Telebit

Everex 33 MHz 386
Everex

Macintosh IIci
Apple Computer

LaserWriter II NTX
Apple Computer

SuperMac 19" Trinitron Monitor
SuperMac

NeXT Workstation
NeXT, Inc.

Portable CD-ROM Player
NEC

SOFTWARE:
QEdit
Semware

Telix/SE
Shareware (included in forthcoming *Dvorak's Guide to PC Telecommunications*, ISBN 0-07-881551-7)

Super PC-Kwik
Multisoft

Animator 3.0
Autodesk

Freestyle
Wang

MARY EISENHART

HARDWARE:
Macintosh SE/30
Apple Computer
Fully justifying the satisfied chortles of my Apple engineer buddies, this speedy little machine will do everything from running A/UX (in its new version) to opening your *PageMaker* screens and drawing your graphics with amazing speed. As a long-term investment, if you want a Mac you can carry around occasionally but don't want to sacrifice speed and power, this is the one to get.

Macintosh IIcx/Apple Two-Page Monochrome Monitor
Apple Computer
Easy to set up, comparable in speed to the SE/30, and capable of more expansion options, this machine is another winner. The Apple two-page monitor is a joy to behold, almost entirely free of glare, flicker, and distortion.

LaserWriter II NTX
Apple Computer
A marvel. Now if only it were cheap...

PhoneNet
Farallon
The built-in networking capabilities of the Macintosh are probably among the few things about the machine that are insufficiently hyped. Farallon has brought Mac networking to an artform; in contrast to the hassle-and-expense-ridden PC networking universe, PhoneNet makes plug-and-play a reality.

PM2400SA Modem
Practical Peripherals
Still working away day in and day out in the office, this low-cost modem survived the earthquake and is still the editorial connection to the online universe.

SOFTWARE:
(all for Macintosh)
MacWrite II
Claris
All the word processor most Mac users will need. Claris completely revamped the aging classic it inherited from Apple, managing to retain its ease of use while adding needed features. Saves files in *Word 3.0* format, so I can use the product I like while adapting to the widespread use of Gates's

WRITERS' PICKS

The Best Mac Software

Word 4.0 (Microsoft)

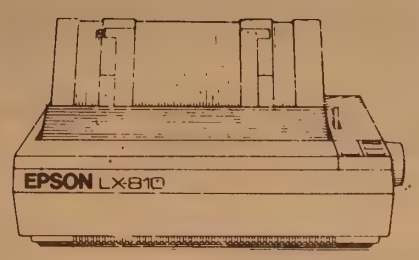
S.A.M. (Symantec)

GOfer (Microlytics)

S.U.M (Symantec)

Excel (Microsoft)

FileMaker II (Claris)



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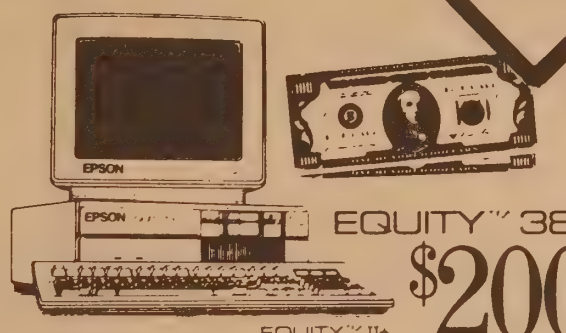

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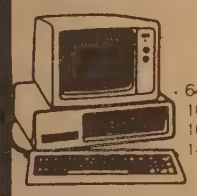

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FullWrite Professional
Ashton-Tate
It's too bad this memory-hungry product hit the market at the same time as the RAM crunch, because it really is happiest with four megs or so. However, it represents a remarkable meeting of a visionary concept (it's about the most engaging interface anybody could ask for) and powerful tool. I love its features, I love the way it works (except for a peculiarly counterintuitive outliner), and if it would only save files in *Word* format I'd never use anything else. Except maybe for mailmerge, which *MacWrite* does better.

DiskTop
CE Software

GOfer
Microlytics
My hard disk looks like my office. (Hint: very similar appearance pre- and post-earthquake.) I'm forever forgetting what folder I put a file in, for instance, or what I *named* the file. However, *DiskTop*, in addition to other useful functions, will search out elusive files by a variety of criteria—date, creator, name, etc. And if the only thing I can remember about the file is that it discusses Mom and Apple Pie, *GOfer* will find it. Even if you're a neat, organized person, both these packages are indispensable for keeping the information stored on your hard disk accessible.

FileMaker 4/II
Nashoba/Claris
Lavish praise belongs to Nashoba for creating the product and bringing it to its current state of development, and to Claris for recognizing its fine points, adding it to the product line, and supporting it well. A very Mac-ish combination of power, flexibility and ease of use; I use it constantly for everything from pay reports to subscription list maintenance, and I'm still delighted with it. Like its sibling *MacWrite* (with which it works exceptionally well), it's capable of handling most database functions Mac users are likely to need, and seems to be finding favor as a front end to more sophisticated packages.

Symantec Utilities for Macintosh
Symantec AntiViral for Macintosh
Symantec
These products have averted more catastrophes than the entire Legion of Superheroes. If you have a hard disk, save yourself a lot of heartache and grief and buy these packages now.

BENNETT FALK

HARDWARE:
NeXT Workstation
NeXT, Inc.

Sequent 80386 and 32032
Sequent
Multiprocessor computers

DECstation 2100
Digital Equipment Corporation
MIPS R200-based workstation

SPARCstation
Sun Microsystems
SPARC-based workstation

Telebit T-1000
Telebit
9600 baud modem

SOFTWARE:
SCO UNIX
The Santa Cruz Operation
The first product from SCO that can be called UNIX

DAVID HAWKINS

SOFTWARE:
Dungeon Master (Atari ST/Amiga game)
FTL Software
A great dungeon exploration game with good graphics and an excellent interface.

WordUp (Atari ST word processor)
Neocept Software
An impressive word processor that can handle graphics and fonts well.

FLASH! (telecommunications for the ST)
Antic Software
A very good telecomm program that does various emulations, has a dialing directory, and offers various upload/download options.

Spectre GCR (Mac emulator for the ST)
Small, Inc.
A combo of hardware/software, with a cartridge that holds the Mac 128 K ROMs, and software that makes the Atari disk drive work with regular Mac disks.

GFA-BASIC 3.0
Antic Software
A complete BASIC for the Atari that gives the programmer the ability to work with windows and graphics.

PAUL HOFFMAN

SOFTWARE:
MultiFinder
Apple Computer
My reasoning on this may seem perverse, but *MultiFinder* shows better than any other environment how few users are interested in multitasking. Of the common multitasking systems (e.g. *Windows*, *DESQview*, UNIX), *MF* is the easiest to learn and least obtrusive to use. Still, fewer than 20% of Mac users use it. And Bill Gates can't figure out why OS/2 is selling so slowly.

Word 4.0 (Macintosh)
Microsoft
Imperfect and sometimes frustrating, but the right amount of features and power for three-quarters of all word processing users.

Excel (PC or Macintosh)
Microsoft
Same reasons as *Word*.

Viruses
Boy, am I going to catch grief for this one. But without viruses, even fewer people would back up their data regularly. Even with viruses running around, you still have to beat most people with a stick to get them to spend ten minutes a week protecting their work. Viruses have put the fear of data loss into many people and have made them less prone to damage from things that are much more common than viruses, like hardware failure.

PowerStation (Macintosh)
Fifth Generation Systems

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Macintosh IIcx (Apple)

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WDXT-GEN..... 45
DTC 7280 MFM 1:1 Interleave..... 115
DTC 7287 RLL 1:1 Interleave..... 125
XT Adapter, Control 2 360KB Drv.. 20
XT/AT Adapter, Control two of any 360KB-1.44MB Floppy..... 32
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XT RLL Hard Drive Controller..... 57
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SOFTWARE:

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Intuit
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Quarterdeck
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386-20 MHz 0 Wait

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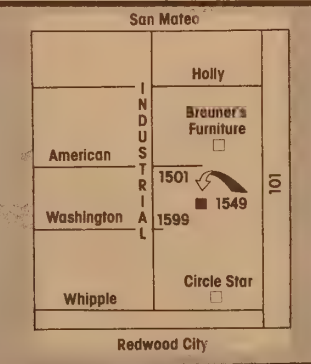

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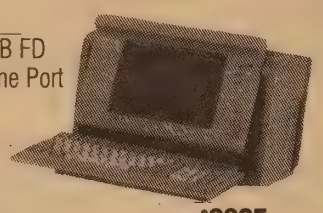

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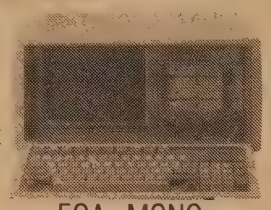

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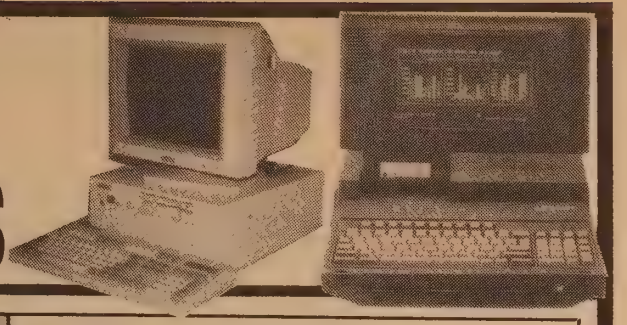

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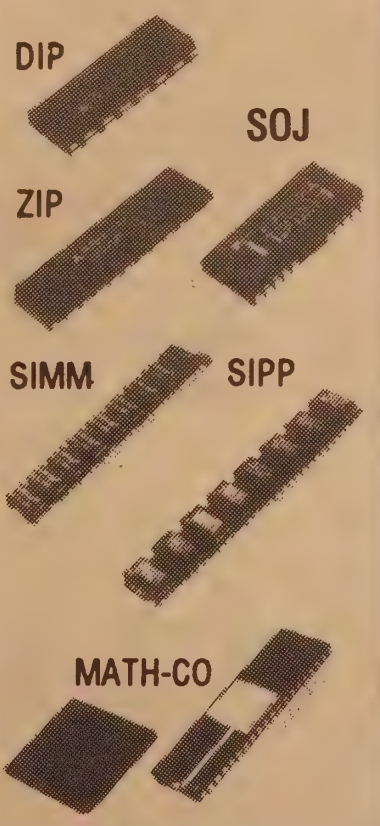

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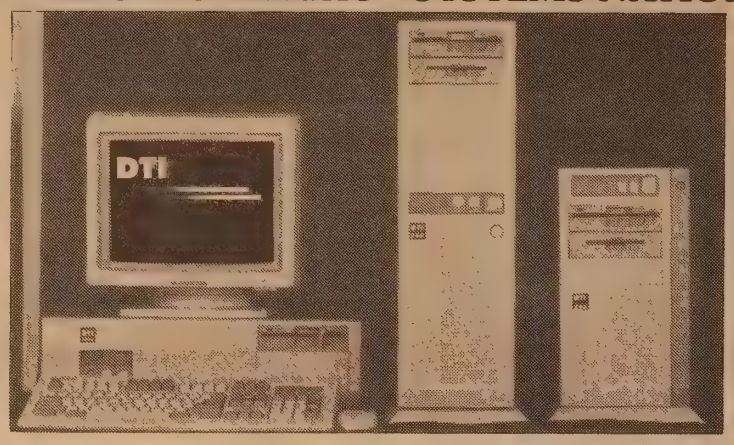

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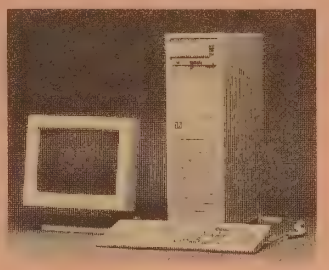
WITH HARD DRIVE				
40MB (28MS)	2355	2715	2795	2985
80MB(28MS)	2505	2925	3005	3195
120MB (27MS)	2755	3115	3195	3385
158MB (14MS)	3435	3755	3875	4065

PC&MORE 386-20 Professional System $1299

The new 386 desktop standard. Review after review, these PC&MORE systems are selected as the best price/performance buys. A power user's dream! Standard features include:

- 80386-20 CPU running at 20MHz
- 1MB RAM expandable to 8MB
- 1.2MB floppy drive
- High speed dual hard disk controller
- OS/2, XENIX, and Novell compatible
- 80387 coprocessor socket
- AMI BIOS, NEAT AT/386 chipset
- Keytronics enhanced 101 keyboard
- 2 serial, 1 parallel, 1 game
- 5-drive case w/security lock
- LED indicators
- 200W UL power supply
- One year warranty
- Vertical case add $95



INCLUDES: • MONITOR • VIDEO CARD	MONO 12" 720x350	EGA 14" 640x350	VGA 14" 640x480	Multisync 14" 800x600
STANDARD SYSTEM	*$1299*	*$1628*	*$1718*	*$1829*
WITH HARD DRIVE				
20MB (65MS)	1519	1857	1938	2049
40MB (40MS)	1629	1958	2058	2169
40MB (28MS)	1664	1995	2118	2229
70MB (28MS)	1864	2195	2289	2400
1:1 INTERLEAVE CONTROLLER OPTION: $50.00				

PC&MORE MOTHERBOARDS Create a 386 System!

Design the workstation of your dreams with one of power trio of 386 motherboards. Just add the expansion cards and monitor of your choice from our complete catalog of fine enhancement products. All PC&MORE 386 motherboards are shipped with 0K RAM.

PCM-386-25 Cache
- Intel 80386-25 CPU
- 25 and 33 MHz models
- 0 wait-state cache read
- ZYMOS chipset
- 16MB RAM capacity
- Accepts DIPs or SIPs
- 64K high-speed cache
- Austek cache controller
- AMI BIOS w/setup & diags
- Shadow ROM/video BIOS
- 5 16-bit,1 8-bit,1 32-bit slots
- Baby AT size
- 4-layer PCB construction
- 80387/Weitek support
- Landmark: 40.50
- Norton SI: 29.30

PCM-386-25
- Intel 80386-25 CPU
- 25 and 20 MHz models
- 25MHz NEAT chipset
- Up to 8 MB onboard
- 16MB RAM capacity
- Page/interleave RAM option
- Accepts DIPs or SIPs
- Adjustable bus speeds
- AMI BIOS w/setup & diags
- Shadow ROM/video BIOS
- 5 16-bit,2 8-bit,1 32-bit slots
- Baby AT size
- 4-layer PCB construction
- 80387/Weitek support
- 8MB RAM Card(0K):$119.95
- Landmark: 35.60
- Norton SI: 28.20

PCM-386-SX
- Intel 80386SX CPU
- C&T NEAT chipset
- EMS support onboard
- Page/interleave RAM option
- 2MB onboard,44256 or 41256
- Speed test up to 21 MHz
- Adjustable bus speed
- Shadow ROM/video BIOS
- 5 16-bit,2 8-bit slots
- Baby AT size
- Compatible w/XENIX, Novell
- 4-layer PCB construction
- 80387 support optional
- Opt. 8MB RAM card uses 41256/411000 DRAM
- Landmark 20.60
- Norton SI 18.00

25MHz **$1279**
33MHz **CALL!**

25MHz **$759**
20MHz **$639**

386SX **$389**

PC&MORE 286-16 Associate System $980

You probably never thought you could get into a reliable, high-performance business system this inexpensively. But with the 286-16, now you can. Standard features include:

- 80286-16 CPU running at 16MHz
- 1MB RAM expandable to 8MB
- 1.2MB or 1.44 floppy drive
- High speed dual hard disk controller
- OS/2, XENIX, and Novell compatible
- 80287 coprocessor socket
- Shadow RAM cache, NEAT chipset
- Enhanced 101 keyboard
- 2 serial, 1 parallel, 1 game
- 5-drive case w/security lock
- LED indicators
- 200W UL power supply
- One year warranty
- Vertical case add $95

INCLUDES: • MONITOR • VIDEO CARD	MONO 12" 720x350	EGA 14" 640x350	VGA 14" 640x480	Multisync 14" 800x600
STANDARD SYSTEM	*$980*	*$1200*	*$1430*	*$1530*
WITH HARD DRIVE				
20MB (65MS)	1200	1520	1650	1750
40MB (40MS)	1300	1620	1750	1850
40MB (28MS)	1379	1710	1835	1930
70MB (28MS)	1535	1860	1990	2090
1:1 INTERLEAVE CONTROLLER OPTION: $50.00				

PC&MORE 286-12.5 Desktop System $770

THE high-performance, full-featured, low-cost, AT-compatible system. Get the most bang for your buck! Standard features include:

- 80286 CPU running at 12.5 MHz
- 512K RAM expandable to 4 MB
- 1.2MB floppy drive w/controller
- LIM EMS 4.0 support
- OS/2, XENIX, and Novell compatible
- 80287 coprocessor socket
- AMI BIOS w/built-in setup program
- Enhanced 101 keyboard
- 2 serial, 1 parallel, 1 game
- 5-drive case w/security lock
- LED indicators
- 200W UL power supply
- One year warranty
- Vertical case add $95

INCLUDES: • MONITOR • VIDEO CARD	MONO 12" 720x350	EGA 14" 640x350	VGA 14" 640x480	Multisync 14" 800x600
STANDARD SYSTEM	*$770*	*$1150*	*$1320*	*$1440*
WITH HARD DRIVE				
20MB (65MS)	990	1370	1535	1520
40MB (40MS)	1120	1490	1665	1750
40MB (28MS)	1175	1560	1725	1870
70MB (28MS)	1325	1700	1875	1960
1:1 INTERLEAVE CONTROLLER OPTION: $50.00				

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Create a system customized to your computing needs with our complete line of high-performance and cost-effective 286 motherboards. Just add the expansion cards and monitor of your choice from our complete catalog of fine products. All PC&MORE 286 motherboards are shipped with 0K RAM.

PCM-TOP-286
- 80286-12, -16, or -20 CPU
- 12, 16, and 20 MHz models
- 0 wait-state capability
- NEAT chipset
- Up to 8 MB onboard
- Page/interleave RAM option
- Accepts DIPs or SIPs
- Onboard EMS 4.0 support
- AMI BIOS
- OS/2 optimized
- Shadow ROM/video BIOS
- Five 16-bit, three 8-bit slots
- Rechargeable battery
- 4-layer PCB construction
- Reliable VLSI design
- Norton SI: 26.00 (20MHz)

PCM-RACER-286
- 80286-12 CPU
- 12.5 MHz operation
- 0 wait-state capability
- SUNTAC chipset
- Up to 4 MB onboard
- Page/interleave RAM option
- Accepts 256K or 1M DRAM
- Onboard EMS 4.0 support
- AMI BIOS
- OS/2 optimized
- Four 16-bit, three 8-bit slots
- Rechargeable battery
- 4-layer PCB construction
- Reliable VLSI design
- Norton SI: 15.30 (12MHz)

PCM-CONCORDE V
- 80286-16 CPU
- 16 MHz operation
- 0 wait-state capability
- DFI custom chipset
- Up to 8 MB onboard
- Page/interleave RAM option
- Accepts DIPs or SIPs
- Onboard hardware EEMS
- Onboard EMS 4.0 support
- AMI BIOS
- Shadow ROM/video BIOS
- Four 16-bit, three 8-bit slots
- Rechargeable battery
- 4-layer PCB construction
- Reliable VLSI design
- Norton SI: 18.70 (16MHz)

20MHz **$375**
16MHz **$289**
12MHz **$245**

12MHz **$210**
10MHz **$189**

16MHz **$289**

VIDEO CARDS

MG-160 Hercules compatible monochrome graphics with printer port, full screen CGA emulation **45.00**

EG-3000 Enhanced graphics adapter, fully compatible with IBM EGA, CGA, MDA & Hercules. All modes on a single EGA monitor, 256K RAM, 132 col, 40 line **88.00**

VG-1000 VGA adapter w/800x600 resolution on multisync monitor, compatible with VGA, EGA, CGA, MDA, and Hercules, analog or digital monitors, 256K RAM **124.00**

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DMS-200 MOUSE 3 button, Microsoft and Mouse Systems compatible,w/ publishing editor, menu maker, drivers, & mousepad **45.00**

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XT BAREBONE SYSTEM 8088-10 Turbo, Case, 150W P/S, manual **145.00**

AT BAREBONE SYSTEM 80286-12 Turbo, Case, 200W P/S, manual **299.00**

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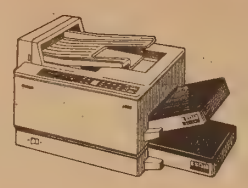
Laser Partner



- 11 Pages Per Minute!!
- Two 250-sheet Paper Cassettes
- 300 Dot-per-inch Resolution
- Five Popular printer emulations
- Convenient Front Panel Controls
- 512K RAM Upgradeable to 1.5MB
- One Year Limited Warranty

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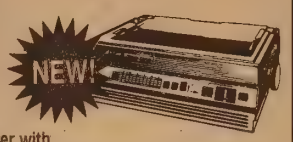

KX-P1624

Wide Carriage, 24-Pin Dot Matrix Printer with many high end printer features

- EZ set operator panel controls more than 20 functions
- Paper parking
- Rear, bottom, front and top feeds 360 x 360 dpi resolution
- Multiple font capabilities—2 draft and 5 letter quality

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SPECIAL THIS MONTH

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- "EZ-Set" Front Panel Controls over 20 Functions!
- 24 PIN For letter Quality
- 192 CPS; 63 CPS LQ
- Combines over 5500 Type Styles!
- Rear, bottom & front feed paper paths
- 360 x 360 dpi

KX-P1180 192CPS Draft/38CPS NLQ $175

KX-P1191 240CPS Draft/48CPS NLQ $205

KX-P1595 288CPS Draft/61CPS NLQ $429

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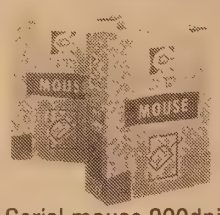

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- Serial mouse 200dpi $59.95
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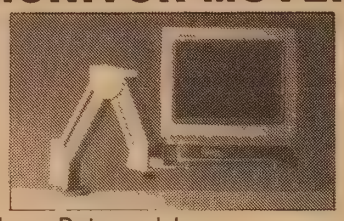

- Heavy Duty model
- Can 360 Saving much time and comfortable for your optical view
- Able to hold monitor up to 50lbs.
- Platform Tray: 12"x 12"

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- Height Adjustments

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- 80286 12 MHz 0 Wait w/o CPU 415
- 80386SX 16 MHz 0 Wait 395
- 80386 25 MHz W/64K Cache 0 Wait w/o CPU 1,100
- 80386 33 MHz W/64K Cache 0 wait w/o CPU 1,400

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- 14" Hi-Res Flat Screen Amber Monitor 110
- NEC Multisync 2A 800 x 600 490
- NEC Multisync.3D 1024 x 768 620
- Sony 1302A 900 x 560 559
- Sony 1304 1024 x 768 675
- Goldstar EGA Monitor 640 x 350 315
- Goldstar VGA Monitor 720 x 480 335
- Goldstar Monitor 800 x 560 445
- Packard Bell Models ..... CALL

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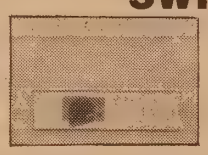

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- NO252X AaBb 21.95
- NO362 AB 36PIN 19.95
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- 6'/12'/25' RS232 Cable $7.95/12.95/19.95
- 6' Centronics cable 9.95
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- 6' VGA Cable 9.95
- AT/XT HDD 7.95/4.95
- Power Cord 5.95
- 6' Null modem cable 8.95

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(Made in USA)

- CRDMB2450 ..... $109
  Internal 2400 Baud Modem
- CRDMB1250 75
  Internal 1200 Baud Modem
- CRD2400EX 125
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- 1.44MB 85
- ST-225 20MB 195
- ST-251-1 28 ms 40MB 345
- ST-4096 28ms 80MB 560
- ST-125-20 MB 3 1/2" 20MB 249
- ST-138 (3.5",38ms) 30MB 339

AUTO SCAN SWITCH, BUFFER CONVERTER

This auto scan switch allows multiple computers to share one printer without the need for manual switching.

- MP401 4 computers share one printer (DB25 parallel) $108
- MP801 Same as MP401, except using 8 ports 135
- MS401 4 computers share one serial peripheral 114
- MS801 Same as MS401, except using 8 ports 139

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- Baby AT Case 49
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- AT Tower Case w/230W Power supply 169
- 165W XT Power Supply 37
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- 220W AT Power Supply 49
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ASB422-256 ..... $249

- 4 computers share 2 printers • Auto scan or key switch with 256K buffer • Transfer rates 1K abyte/sec/port • LED display, which shows quantity of copies, can be easily set by + or - button

ASB624-256 369

- 6 computers share 4 printers • Port selection through soft code or at the press of a key switch • 256K memory

ASB24-512 419

- Same as ASB624-256 except with 512K memory installed

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- Mono Graphic/ Printer 39
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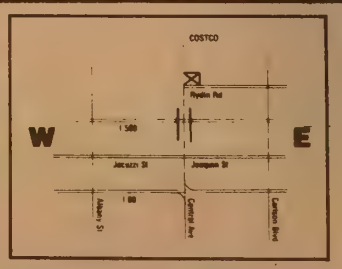

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FREE MS-DOS 4.01
- Landmark=59, SI=46
- Full size Tower Case w/230W Power Supply
- Full size 6 layer mainboard running at 0/1 wait state
- Double Sigma Intel 80386 33MHz CPU & PHOENIX BIOS
- 70ns 2MB RAM standard, expandable to 16MB
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- 1.2MB and 1.44MB Floppy Disk Drives
  *2 serial (one optional), 1 parallel, 1 game port
- 16-bit ATI small Wonder VGA card w/256K RAM
- 14" Hi-Res color VGA Monitor
- 101 Keytronic Enhanced Keyboard
- 2x32 bit, 5x16 bit, and 1x8 bit slots
- Sockets for 80387 Math Co-processor
- Ideal for Desktop Publishing, CAD and Network Service

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- 70ns 1MB RAM standard expandable to 16MB
- 1:1 interleave HD/FD controller card
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- 2 serial (one optional), 1 parallel, and 1 game port
- 16-bit ATI small Wonder VGA card w/256K RAM
- 14" Hi-Res color VGA Monitor
- 101 Keytronic Enhanced Keyboard
- 1x32 bit, 5x16 bit, and 1x8 bit slots
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- 2 serial (one optional), 1 parallel, and 1 game ports
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- Full size Tower case w/230W power supply
- 101 enhanced keyboard
- Ideal for Desktop Publishing, CAD and Network server
- 1.2 Floppy Drive

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ECI 386SX SYSTEM

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- 16 MHz Intel 80386SX CPU running at 0/1 wait state
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- 1MB RAM stsndard expandable to 4MB on board
- 6 16-bit and 2 8-bit slots
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- 40MB; 28ms hard drive
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- Total software compatible w/80386
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UPGRADE	
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- Baby size main board running at 6/12 or 8/12 0/1 wait state
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- 1.2MB floppy drive
- Monochrome monitor and card w/parallel port
- 101 enhanced keyboard
- Standard AT case w/silent 220 watts power supply
- A great general purpose system

Other options available
Free MS-DOS 4.01

UPGRADE	EGA	VGA	SUPER
20MB	1150	1294	1460
40MB	1354	1444	1610
80MB	1569	1659	1825

ONE YEAR WARRANTY ON LABOR & PARTS

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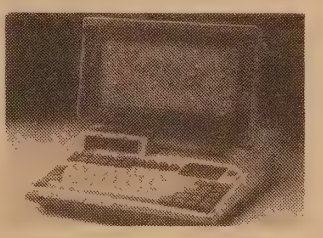

- 80286 CPU running at 10MHz
- 1 MB RAM expandable to 1.5 MB RAM board
- 20MB hard disk drive
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ECI GAS PLASMA PORTABLE

386-25MHz 66MB HARD DISK & F/DD

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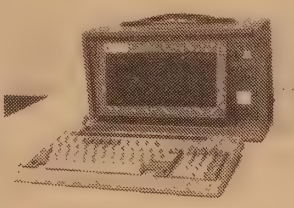

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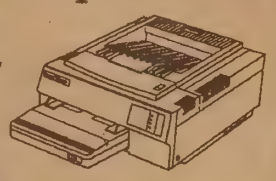
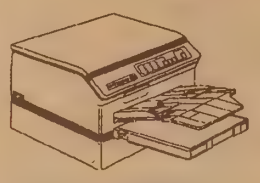
QMS offers you Adobe PostScript in more ways than any other company. Because of its proprietry Advanced Systems Architecture it gives you remarkably faster performance.
QMS-PS 810 includes Adobe 35 fonts, parallel, serial and Appletalk ports. With the push of a switch you can change to various modes. Also standard are HP LaserJet +,HPGL and Diablo 630 emulation.



QMS-PS 810 ..... $3395
QMS-PS 820 ..... $4495



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QMS ColorScript
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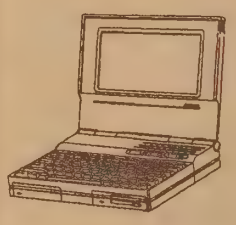

COMPAQ LTE & LTE/286
8.5x11 inches notebook size laptops weighing about 6 pounds. For more details call MicroAge

COMPAQ Deskpro 286e
includes a 80286 running at 12MHz, , 1mb RAM, a 5.25" 1.2mb floppy and an intergrated VGA adapter $1795

COMPAQ Deskpro 386S
inlcudes a 80386SX running at 16MHz, 1mb RAM, a 5.25" 1.2mb floppy and an integrated VGA adapter $2395

COMPAQ Deskpro 386/20e
includes a 80386 running at 20MHz, 1mb RAM, a 5.25" 1.2 mb floppy and an integrated VGA adapter $3795

COMPAQ Deskpro 386/33
This new system from Compaq includes a 80386 running at 33MHz, 2mb of RAM, 64K of cache memory, 84mb of hard drive space, a 5.25" 1.2mb floppy and an integrated VGA controller. Ask for free 2Mb upgrade.

COMPAQ SLT/286
This battery backed laptop from Compaq includes and 80286 processor running at 12MHz, 640K or RAM, a 20mb or 40mb hard drive space, a 3.5" 1.44mb floppy and a VGA screen and port. $3849/4265

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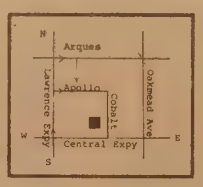

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professional astronomer and the curious kid who wonders "What's that star?"

SuperCard
Silicon Beach
Yes, it's slow, and yes, it has bugs, but this grand extension of the *HyperCard* concept introduces some brilliant ideas and sets a direction for others to follow in "hypermedia," whatever that means. Silicon Beach has acted very responsibly in trying to develop industry-wide standards for the HyperTalk scripting language.

Interactive Physics for Macintosh
Best educational title of the year. Proves you don't have to be a big company to produce great software. Makes thought-experiments come alive on the screen, with powerful analytical tools. Expensive, but worth it.

DAVID MORGENSTERN

HARDWARE:
Macintosh IIcx/ci
Apple Computer
This is the Mac used by BMUG at our Thursday evening meetings. It isn't as easy to carry as a Classic, but it beats out a plain Mac II by a mile—we can see our feet going down the treacherous hall stairs.

DPI 44 Mb removable media drives
DPI
Still the most reliable SyQuest-based drive.

SafeSkin keyboard protectors
Beer- and coffee-drinking BMUG hackers have been glad for their keyboard condoms—members with small kids, too!

Hewlett-Packard DeskWriter
Hewlett-Packard
It isn't perfect, but is the first of many low-cost 300 dpi printers.

BMUG Disk Catalog
BMUG
Hard-hitting hard-copy on software.

SOFTWARE:
S.U.M. (Symantec Utilities for the Macintosh) v. 2
Symantec
If you can't have Steve Costa (BMUG's resident wizard) in your living room, try this.

S.A.M. (Symantec AntiVirus for the Macintosh)
Symantec
A software prophylactic with great sensitivity.

Disinfectant 1.2
Freeware antiviral software (BMUG Utilities 8 disk).

CanOpener
Abbott Systems, Inc.
Can help recover data from corrupted files.

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Microlytics
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HARDWARE:
LaserJet Series II Printer

CDS-Advanced Computer Products

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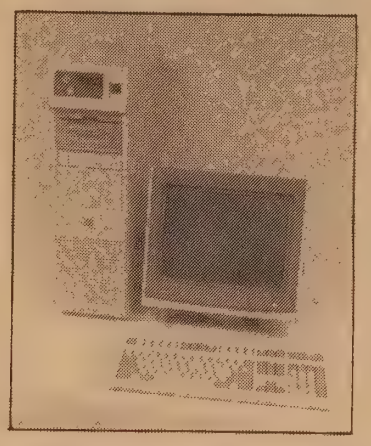

CDS AXT 286

Our entry level system won't stick you with a slow 8 bit 8088 CPU. This system features a made in US 80286 main bd. Operating at 7.2 Mhz with full 16 bit zero wait state memory access makes this system 3 to 4 times faster than any XT.

* 7.2 Mhz AXT Main Bd 5 Yr Mfg Warranty C1
* 512 KB Memory
* 360KB Floppy Disk
* Case /150 W Power Supply
* Enhanced AT style keyboard

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CDS 286 Model 12

This AT system features great performance at a low price with a 12 Mhz 0 wait memory wait state memory access with up to 4 MB of on board memory gives you uncompromised AT features and speed. Choice of Std AT case or newMini Tower are included in this special offer:

* 12 Mhz Main Board w/ 512 KB Memory C3
* 1.2 MB Floppy Disk
* HD/FD Controller
* Std AT or Mini tower Case w/ 200 W PS
* Enhanced AT style keyboard

$ 599

CDS 286 Model 16

If a simple high performance 80286 is what you need this system delivers with 21.7 Mhz AT equivalent speed and SI of 18. Options include 80287 math co-pro and up to 4 Mb memory.

* 16 Mhz Main board w/1 MB Memory C4
* 1.2 MB Floppy Disk
* 1:1 HD / FD Controller
* Std AT or Mini tower Case w/ 200 W PS
* Enhanced AT style keyboard

$ 929

CDS 386 SX Model 16

If 16 Mhz AT Performance is what you need consider this system and unlock increased 386 software capabilities and improved memory management.This system is based on a US manufactured main board running at 16 Mhz. The system includes:

* 16 Mhz 80386SX Main Board
* 1 MB Memory
* 1.2 MB Floppy Disk
* Std AT or Mini tower Case w/ 200 W PS
* 1:1 Hard / Floppy Disk Controller
* Enhanced AT style keyboard

$ 899

CDS 386 SX Model 20

If 20 Mhz AT Performance is what you need consider this system and unlock increased 386 software capabilities and improved memory management.This system is based on a US manufactured main board running at 16 or 20 Mhz. The system includes:

* 16/20 Mhz 80386SX Main Board w/ 1 MB Memory
* 1.2 MB Floppy Disk
* Std AT or Mini tower Case w/ 200 W PS
* 1:1 Hard / Floppy Disk Controller
* Enhanced AT style keyboard

$ 999

CDS 386 Model 20

This 20 Mhz system is a excellent entry level 80386 main board. This system uses a US Manufactured board. Memory option bds include a 1 or 2 MB bd and a 4 or 8MB board. The system includes:

* 20 Mhz 80386 Main Board w/1 MB Memory
* 1.2 MB Floppy Disk
* 1:1 Hard / Floppy Disk Controller
* Std AT or Mini tower case w/ 200 W PS
* Enhanced AT style keyboard

$ 1199

CDS 386 Model 25

This 25 Mhz system is a great 386 value using the Chips and Tech chip set. It is 100%80386 Software compatable and provides up to 24 MB of O/S 2 compatible memory. Options include a full size bd in a full tower case w/ 230 watt PS; 80287 or 80387 co-processors; 32 bit memory bd. The system includes:

* 25 Mhz 80386 Main Board w/ 1 MB Memory
* 1.2 MB Floppy Disk
* 1:1 Hard / Floppy Disk controller
* Mini tower Case / 200 W PS
* AT style keyboard

$ 1299

CDS 386 Model 25 - 64K

This 25 Mhz system uses the fastest 25Mhz 80386 main board. This system has a standard 64K memory cache with an optional 256K cache for those applications better suited to the larger cache memory. Effective cache management is the key to high AT speed equivalent of 43.5 Mhz. The system includes:

* 25 Mhz 80386 Main Board w/1 MB Memory
* 1.2 MB Floppy Disk 256K Cache Add $399
* 1:1 Hard / Floppy Disk Controller
* Full tower Case / 230 W PS /AT style keyboard

$ 1999

CDS 386 Model 33 - 64K

The fastest 33Mhz 80386 System Uses a standard 64K memory cache with an optional 256K cache . AT Speed Equivalent of 58.5 Mhz is the fastest desk top AT type computer. The system includes:

* 33 Mhz 80386 Main Board w/1 MB Memory
* 1.2 MB Floppy Disk
* 1:1 Hard / Floppy Disk Controller
* Full tower Case / 230 W PS
* AT style keyboard

$ 2799

System Add Ons:

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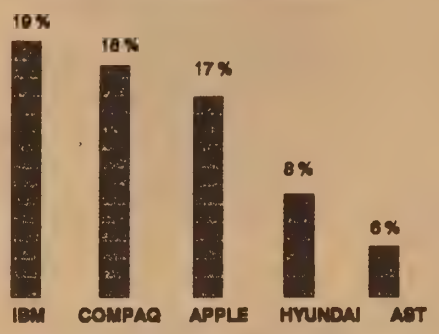

Microcomputer vendor' dollar shares in July 1989
Source: Infocorp

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14" flat screen amber/paper white	$135
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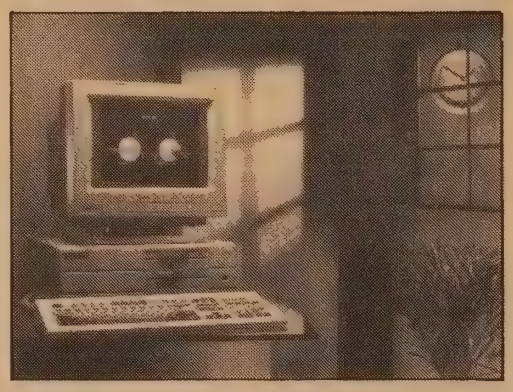

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Super 386c

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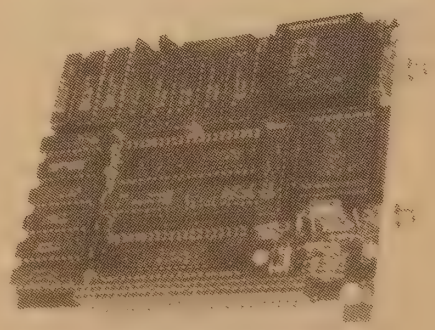

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For demonstrations and seminars, we would be lost without it.

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Including our ALR 20 MHz, 320 Mb file server, Thomas Conrad Arcnet network interface cards, Arcnet Active Hubs and coaxial cable. This is a package deal with the software, but you need both to function. Also, I'll cheat and add in our Irwin 80 Mb tape backup.

Microsoft Mouse
Microsoft
For *Freelance* and *Excel* it makes it easier to move around, and is often faster than trying to manipulate the cursor keys.

SOFTWARE:

NetWare Version 2.15 SFT
Novell
What was microcomputing like before networking? I have been spoiled by the ease of use, the accessibility of programs and hardware, and the ability to transfer and share files without having to leave my desk. Fortunately, I can't remember the last time I had to type "COPY C:\abcfile A:I."

WordPerfect 5.0
WordPerfect
Honestly, sometimes *WordPerfect* drives me crazy. But because I use it all the time, and almost everyone else does too, I have to love it. And I do appreciate its many capabilities. With the soft fonts we use, everything we do comes out looking good.

Freelance Plus 3.1
Lotus Development
Freelance is cool! It's fun. And we do wonderful things with it for clients and for ourselves. For clients we produce charts that illustrate financial statements and statistics better than any numerical presentation. We use it internally to produce color overheads for presentations and report illustrations.

Paradox 3.0
Borland International
In a former life I used *dBASE* and fumbled my way around in it. Unless you wrote a menu-driven program, it wasn't easy to teach a novice to use it. Since I converted my databases to *Paradox*, now even our department secretary zips around in it and produces the reports we need.

Excel 3.1
Microsoft
Last, but not least, I prefer *Excel* over *Lotus* because *Lotus* requires so many add-ins to accomplish the same functions available as standard features in *Excel*. The downside to *Excel* is that the macros are too wordy.

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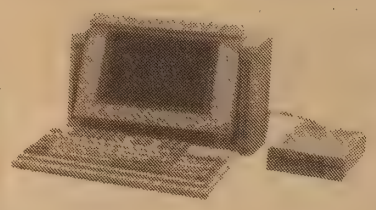

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- 12" TTL Monitor
- 101 Enhanced Keyboard
- 40 MB Hard Disk (28 ms)

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TONY ROCCO

HARDWARE:
Macintosh SE/30
Apple
Although I bought it with only a megabyte of RAM and use it with a 45 Mb external Jasmine hard disk, it is a wonderful machine, everything that a Mac should be. With additional memory, now becoming more easily affordable, and a full-page or two-page grayscale display, the machine will support my DTP and graphics needs for a long time. Anything math-intensive like a spreadsheet will run without bogging down on the SE/30 thanks to its math coprocessor. Support for virtual memory will allow me to move up to System 7.0 next year.

SOFTWARE:
(all for Macintosh)
Word 4.0
Microsoft
Definitely not for everyone, but definitely for the power word processing user who does not have a great need to create graphics within the application. Requires time and effort to learn, but the rewards are great. Re-configurable menu and keyboard commands are nice, and the table feature should prove useful for many.

On Cue 1.3
Icom Simulations
This is indispensable and should be a regular feature of the Macintosh interface. Go right to the application or file you need from the Finder (or within an application) with no muss or fuss via a user-configurable menu. Works under MultiFinder.

QuarkStyle
Quark
Quark *XPress*'s little brother. I use this application and its multitudinous templates to make business cards, letterhead stationery, and restaurant menus. You can paint by numbers with it, or get creative. A perfect low-level DTP application.

FileMaker 4/II
Nashoba/Claris
I know the latest version is *FileMaker II*, but the pre-Claris Nashoba version is great, too. I've found a few inconveniences since reviewing it about a year ago, but overall it's a nice product with a great interface and good layout capabilities.

S.A.M. (Symantec AntiViral for Macintosh)
Symantec
In the age of safe computing, this package has been very helpful in keeping machines around the office virus-free. SAM Intercept scans everything you stick in your Mac for viral contamination, and takes note of suspicious changes to the System. If you get infected anyway, you can knock out any pesky infection with this utility. Any we know about so far, that is.

JEFF SPURRIER

HARDWARE:
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Toshiba

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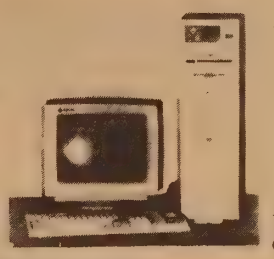

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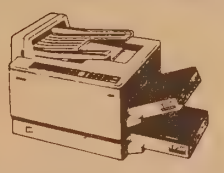

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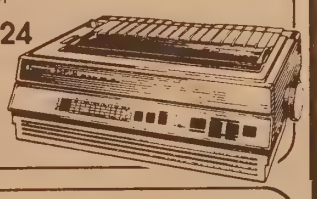

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286 - 10

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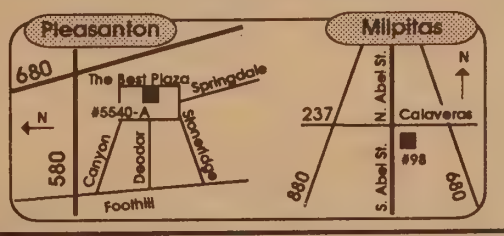

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Very powerful, very accessible database.

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A time manager that understands time-words. Elementary idea, eh—but the only time manager I know which does.

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<This space reserved>
For a truly great Personal Information Manager/ Creativity software combination. Alas, I haven't seen it yet.

JIM WARREN

HARDWARE:
Logimouse for RS-232 port (PC)
Logitech

Hewlett-Packard LaserJet
Hewlett-Packard

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VP-Planner Plus
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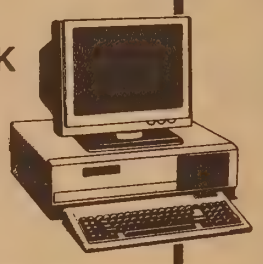

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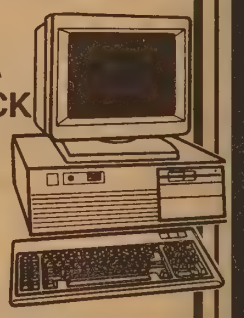

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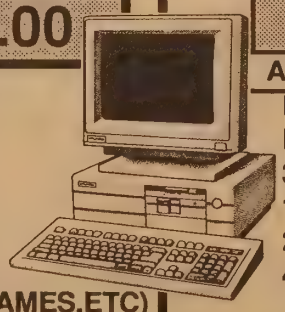

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Terminators	2	2
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Workstations AX12286 w/ 640K, no HD	3	7
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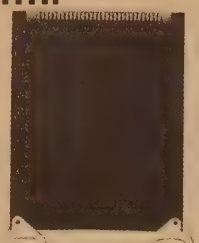

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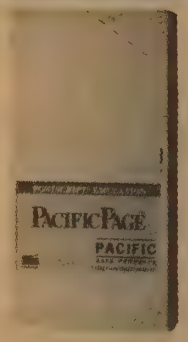

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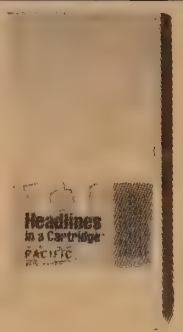

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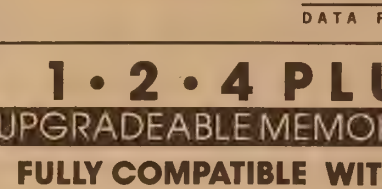

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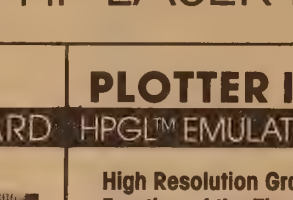

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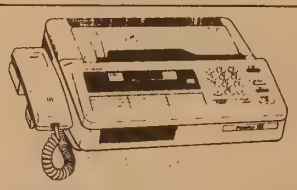

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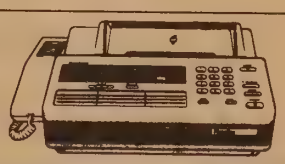

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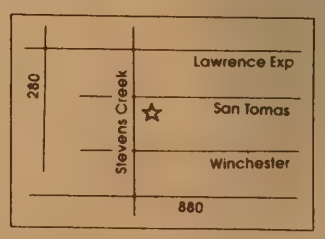

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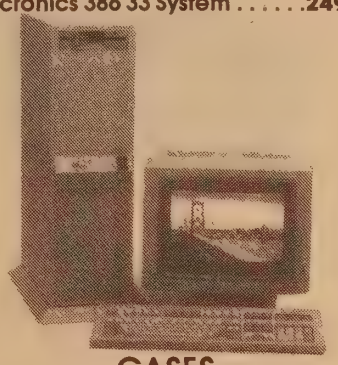

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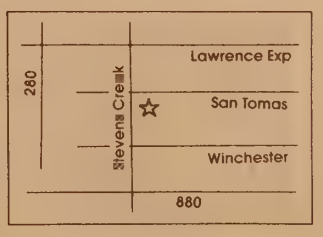
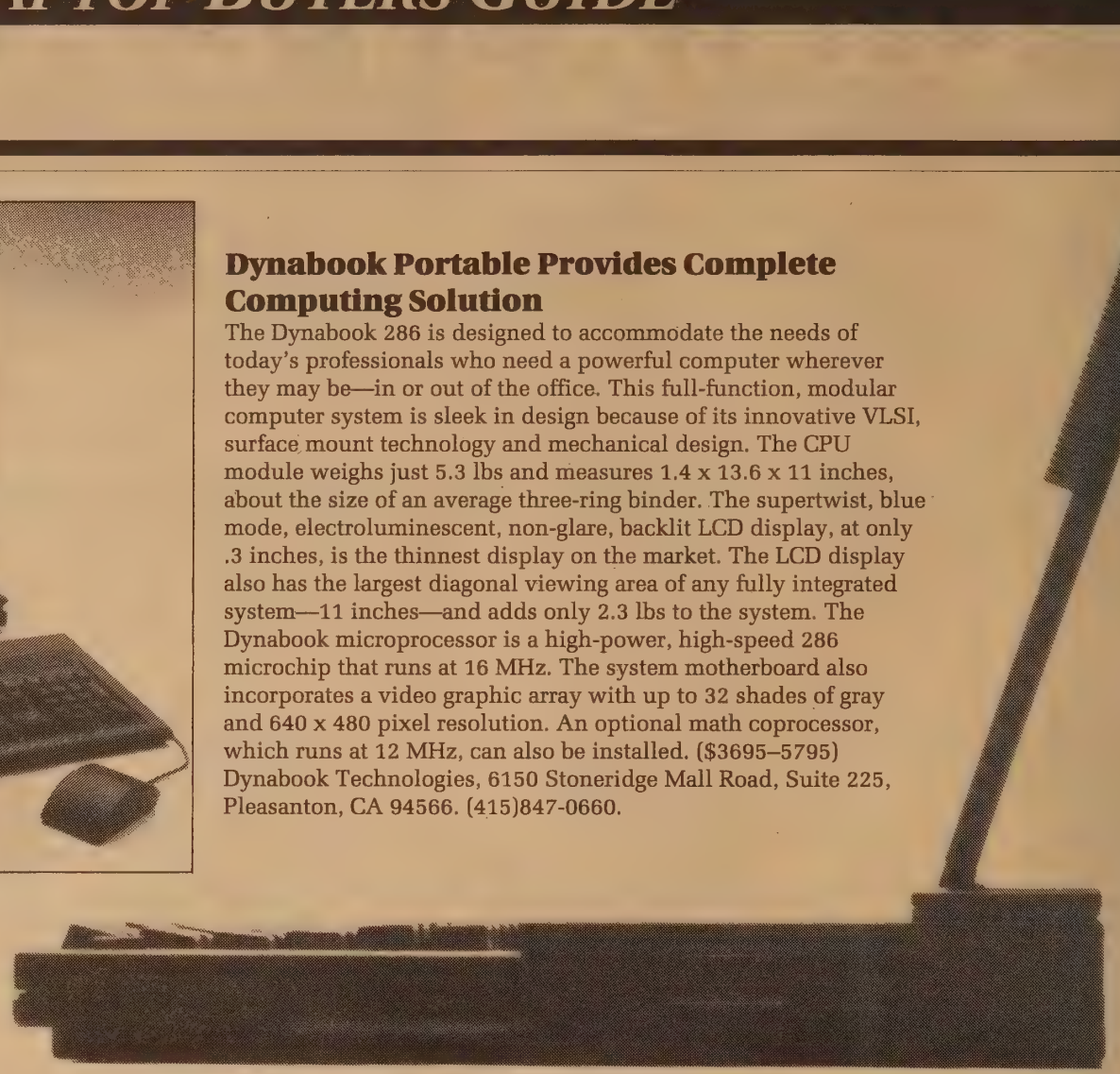
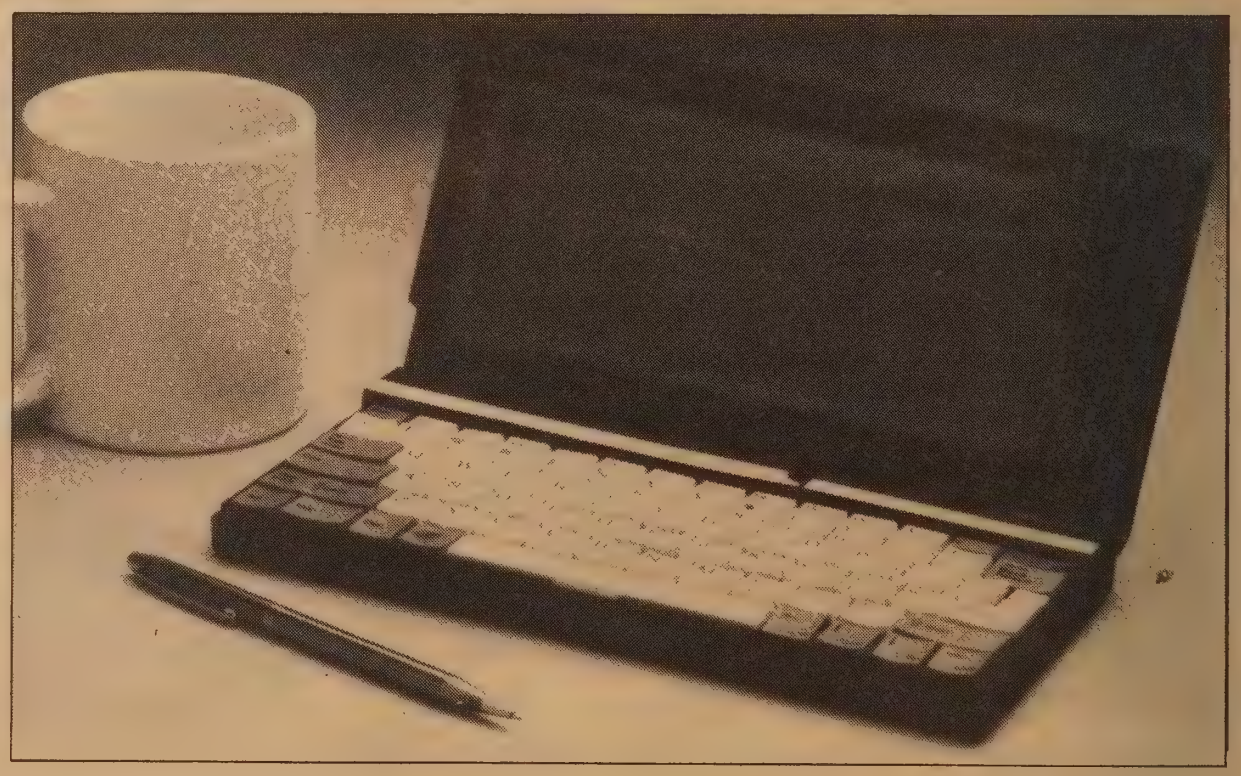


PC LAPTOP BUYERS GUIDE

Dynabook Portable Provides Complete Computing Solution

The Dynabook 286 is designed to accommodate the needs of today's professionals who need a powerful computer wherever they may be—in or out of the office. This full-function, modular computer system is sleek in design because of its innovative VLSI, surface mount technology and mechanical design. The CPU module weighs just 5.3 lbs and measures 1.4 x 13.6 x 11 inches, about the size of an average three-ring binder. The supertwist, blue mode, electroluminescent, non-glare, backlit LCD display, at only .3 inches, is the thinnest display on the market. The LCD display also has the largest diagonal viewing area of any fully integrated system—11 inches—and adds only 2.3 lbs to the system. The Dynabook microprocessor is a high-power, high-speed 286 microchip that runs at 16 MHz. The system motherboard also incorporates a video graphic array with up to 32 shades of gray and 640 x 480 pixel resolution. An optional math coprocessor, which runs at 12 MHz, can also be installed. ($3695–5795) Dynabook Technologies, 6150 Stoneridge Mall Road, Suite 225, Pleasanton, CA 94566. (415)847-0660.





Poqet PC Runs For 100 Hours On Two AA-size Batteries

By making extensive use of proprietary power management techniques, a low-power screen display, and state-of-the-art integrated circuit memory technology, The Poqet PC is capable of running up to 100 hours using two standard AA alkaline batteries. This laptop features a full 80-character by 25-line display and a 77-key, QWERTY keyboard. Measuring 8.75 x 4.3 x .9 inches and weighing one pound, The Poqet PC fits easily inside a briefcase, purse, or jacket pocket. Also available is a battery-operated, 1.44 Mb, floppy disk drive that runs on four AA-size batteries, allowing users to transfer files and programs from The Poqet PC onto disks compatible with desktop computers. The drive will operate for 25 hours on batteries, based on an assumed 20 percent utilization rate. ROM Poqet Memory Cards are available for applications such as *AlphaWorks*, *Lotus 1-2-3*, *Agenda*, *WordPerfect* 5.0, and *Xywrite III Plus*. Additionally, The Poqet PC is equipped with five built-in MS-DOS applications programs, called PoqetTools, enabling user to begin working with the computer immediately. The heart of the computer is a low power, 8088 chip running at up to 7 MHz. System memory includes 512 K of RAM and 640 K of ROM. System ROM includes MS-DOS 3.3, GW Basic, and the built-in applications. ($1995) Poqet Computer Corp., 650 North Mary Ave., Sunnyvale, CA 94086. (408)737-8100.

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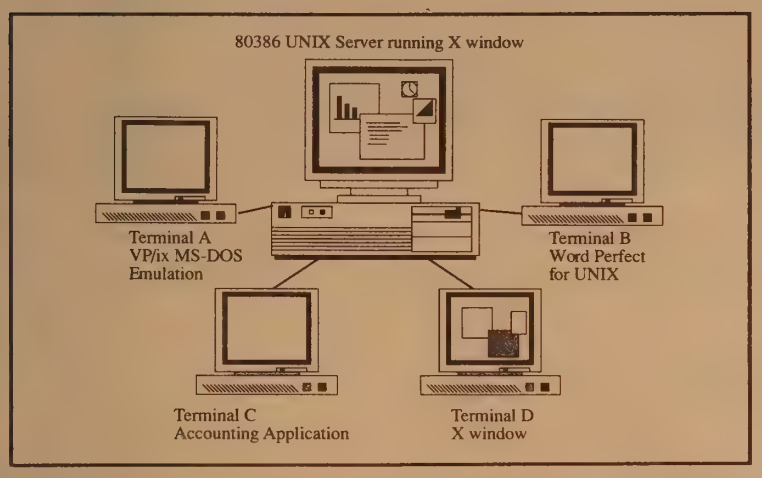

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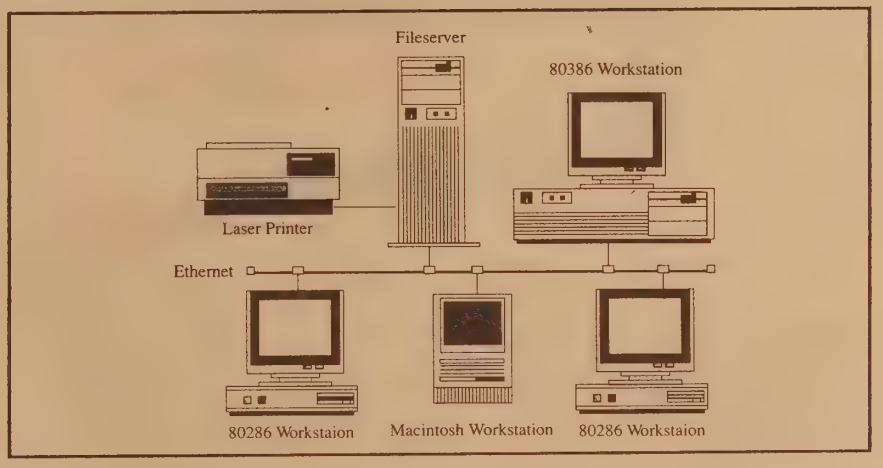

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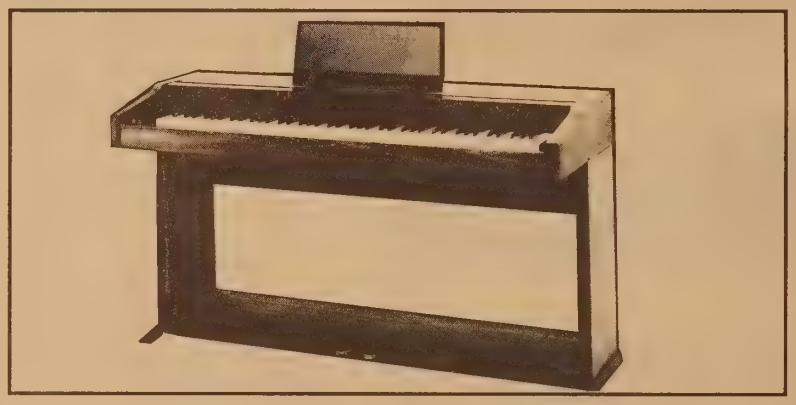

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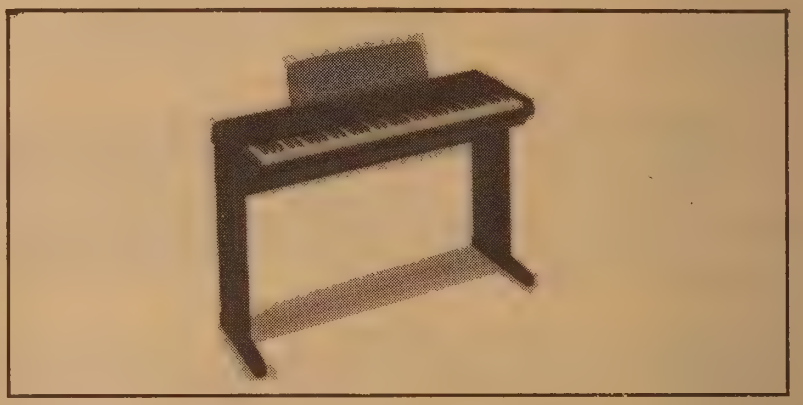

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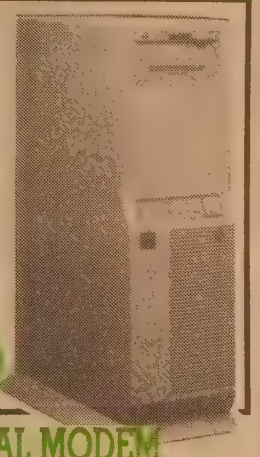

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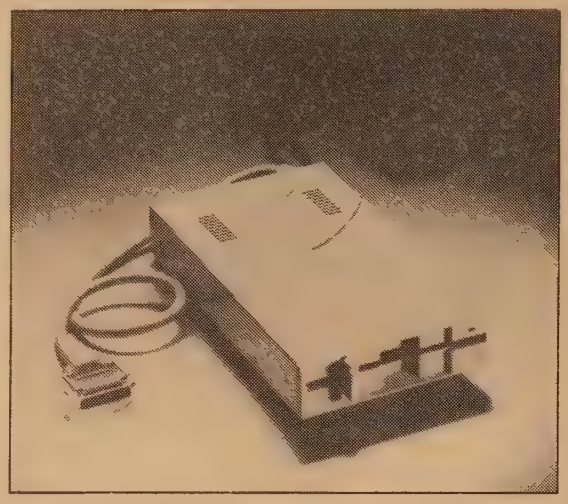
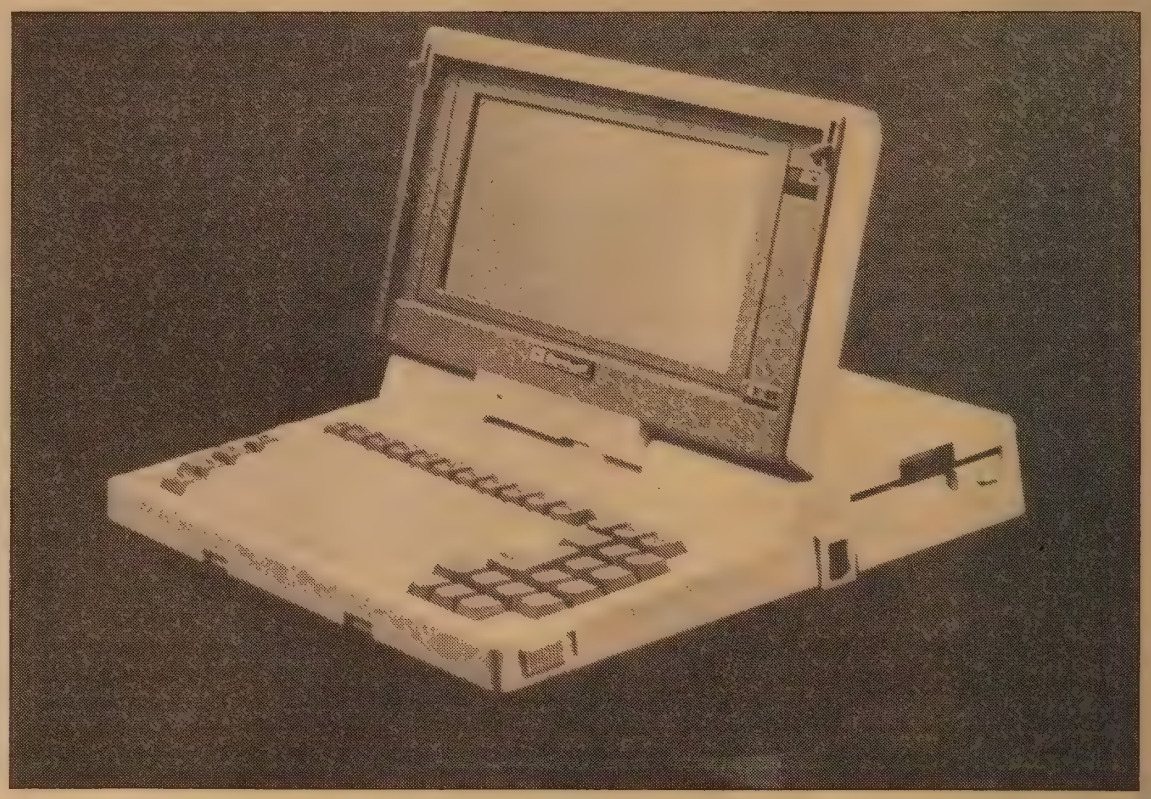


CNF Adds Multidrive IIs To Laptop Line

The Multidrive IIs are a complete line of external 51/4", auto-sensing (high and low density), floppy disk drives for 286 and 386 Toshiba laptop computers, Zenith SupersPort 286s, and Compaq SLT/286 computers. With their small metal enclosures, the Multidrive IIs are easily transportable. Their molded cable interface connects directly to the floppy drive port on the laptop computer with no tools required. Driver software is not needed to make the drives act as A or B. The Multidrive IIs are geared to international travel and function in either an American 110 volt environment or with 220/240 volts, depending upon which external regulated power supply is provided. ($299.99) CNF, Inc., 17705 Hale Avenue, Building I, Suite 2, Morgan Hill, CA 95037. (408)778-1160.



Bondwell Machine Weighs In At Only Eight Pounds

Featuring a slim design, the B200 comes with a supertwisted LCD high-reflective screen display, 640 K RAM, dual 31/2 inch 720 K floppy disk drives, full-size 81-key keyboard, 10 function keys, serial and parallel ports, RGB video port, built-in NiCad removable and rechargeable battery pack that lasts up to six hours, and a bundled package that includes MS-DOS 3.30, GW-BASIC 3.22, and utilities. ($1295) Bondwell Industrial Co., Inc., 47485 Seabridge Dr., Fremont, CA 94538. (415)490-4300.

NEC Produces ROM Software For UltraLite

NEC Home Electronics is now selling ROM card versions of *WordPerfect* 5.0, Microsoft *Works* 1.05, *WordStar* 5.5, and XYQUEST's *Xwrite III Plus* for its UltraLite laptop, a 4.4 lb portable computer. Configured specifically for the UltraLite, software in ROM card format is approximately the size of a credit card. The UltraLite computer ROM card implementation involves no moving parts, making it extremely durable. In addition, by providing software application on the ROM cards, more valuable hard disk space remains available for data. ($195–495) NEC Home Electronics, Inc., 1255 Michael Drive, Wood Dale, Illinois 60191. (312)860-9500.

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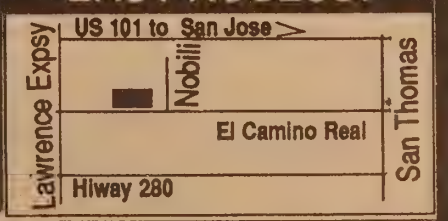

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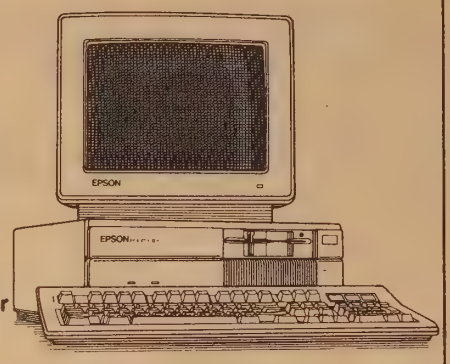

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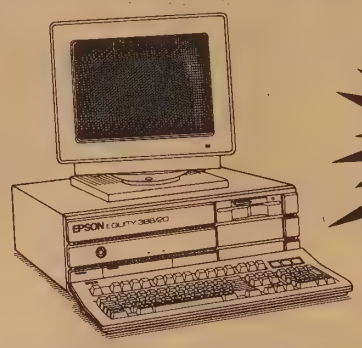

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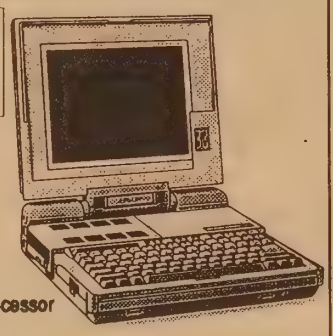

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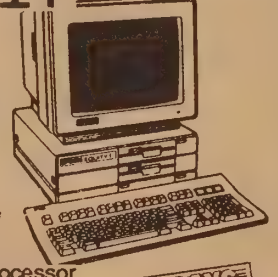

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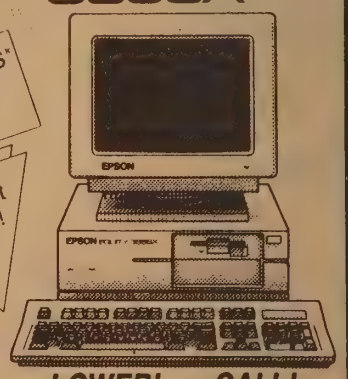

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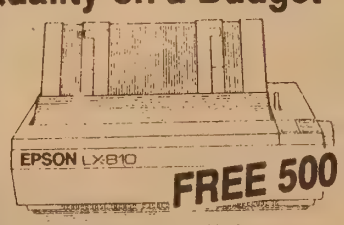

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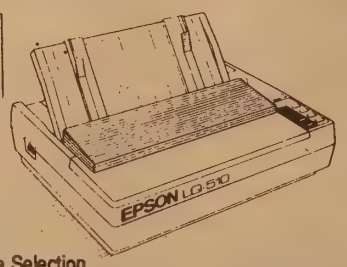

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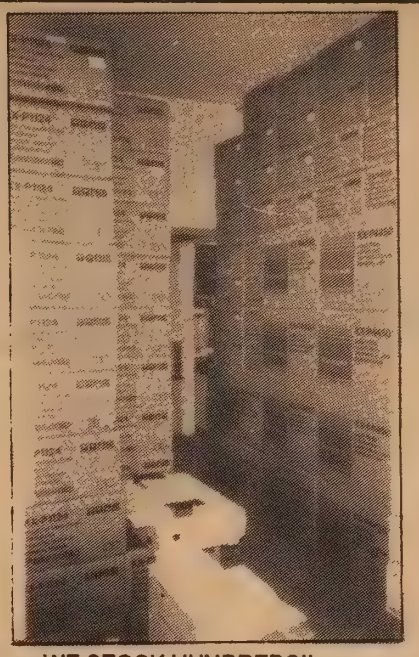

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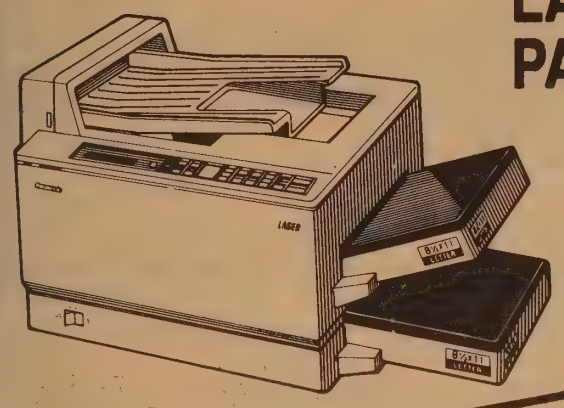

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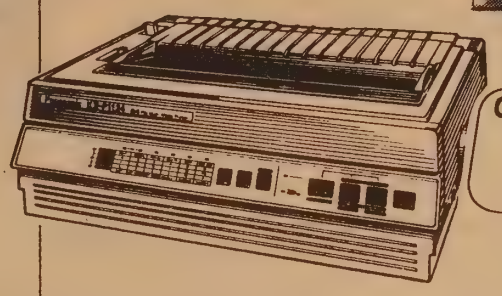

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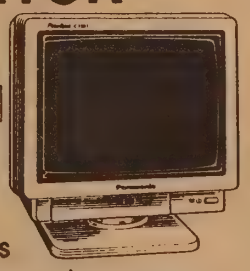

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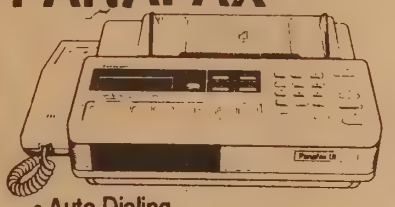

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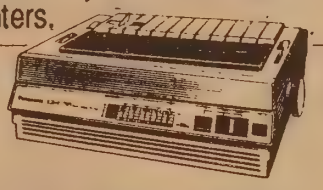

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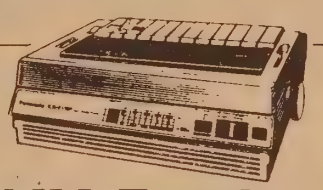

- "EZ" Front Panel Controls over 15 Functions!
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- 48 cps NLQ
- 4 Resident NLQ ,& 2 DRAFT Fonts
- Combines over 4600 Type Styles!
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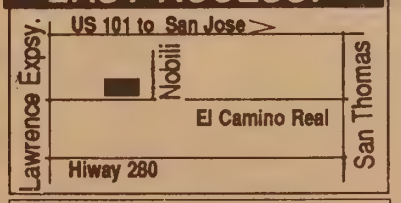

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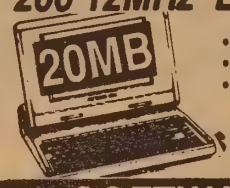

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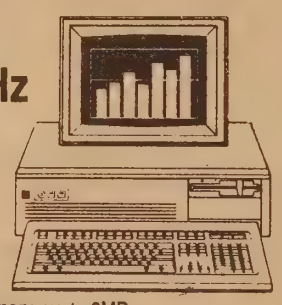

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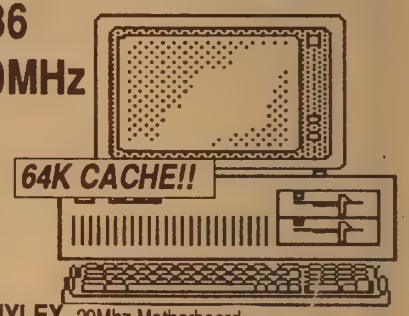

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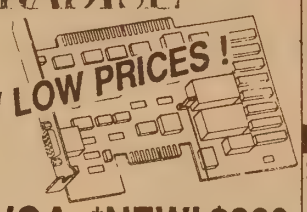

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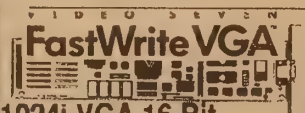

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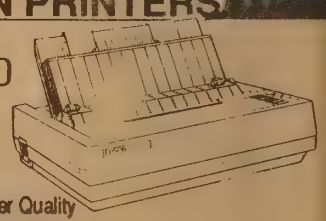

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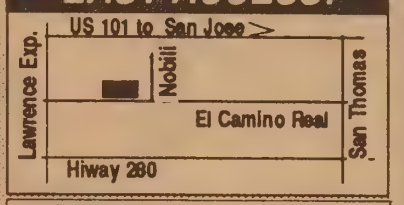

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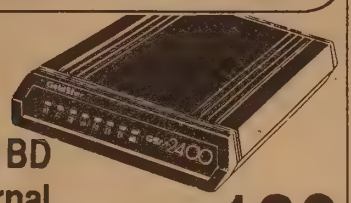

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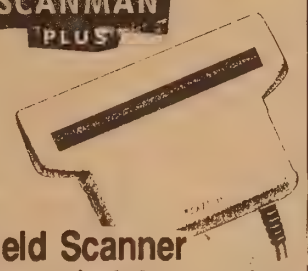

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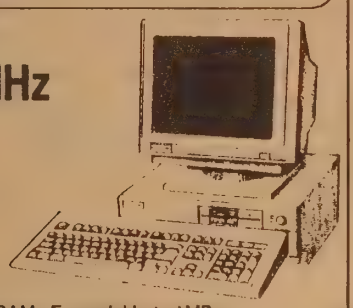

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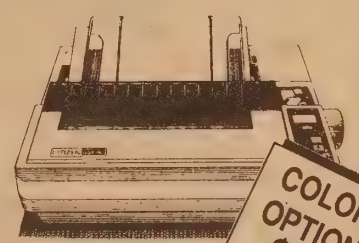

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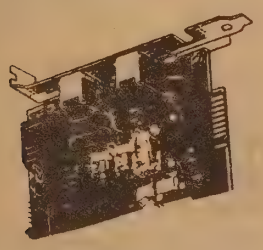

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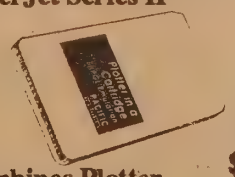

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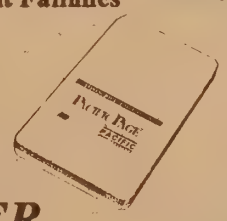

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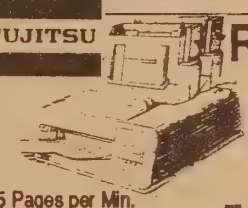

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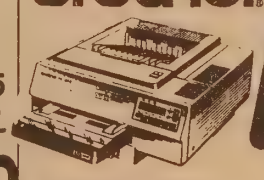

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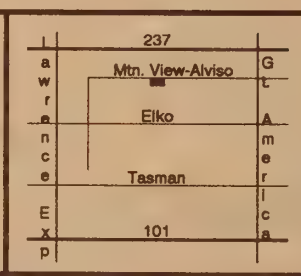

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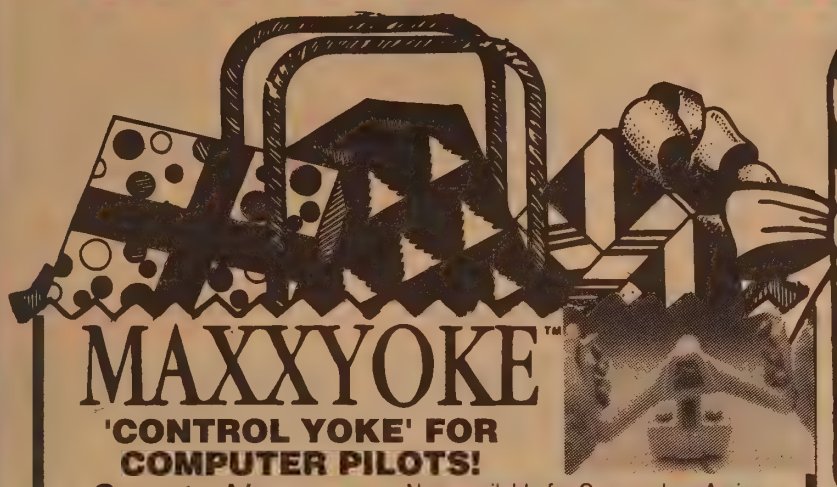

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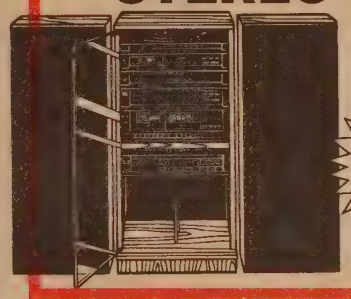

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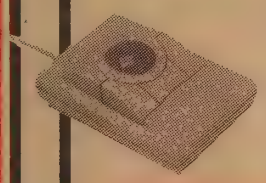

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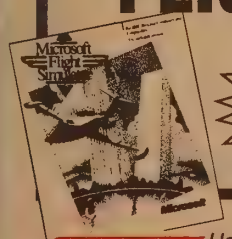

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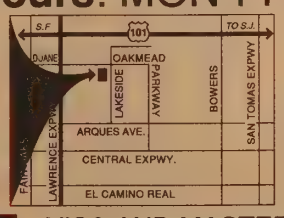

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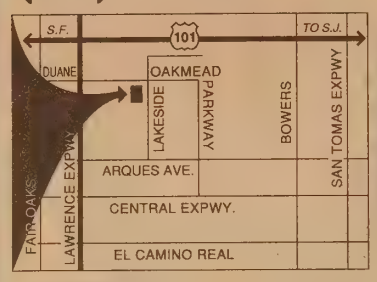

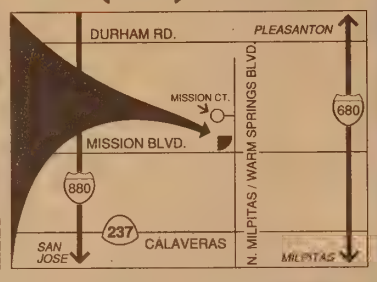

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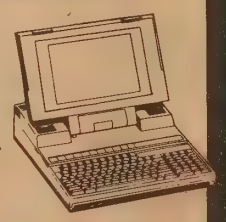

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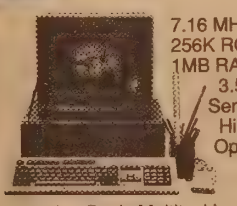

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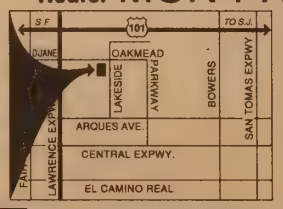

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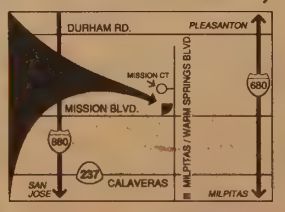

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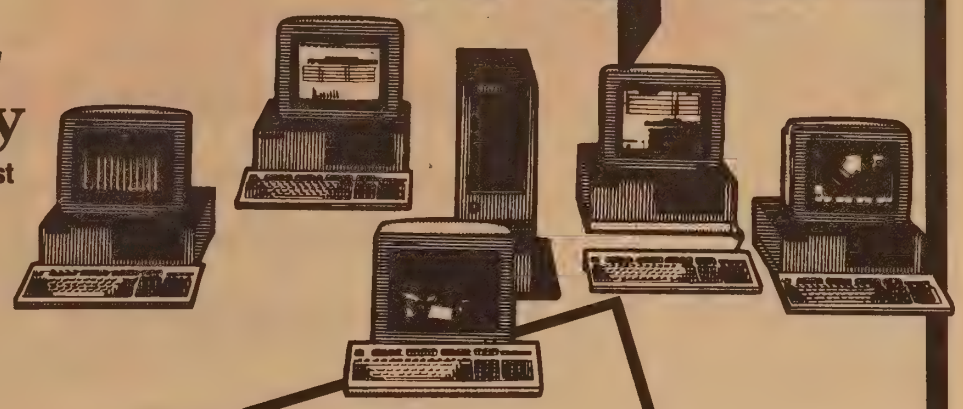

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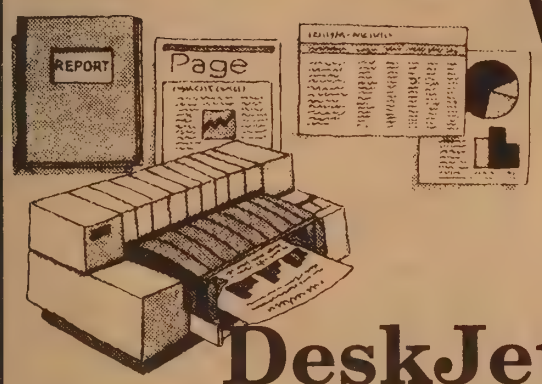

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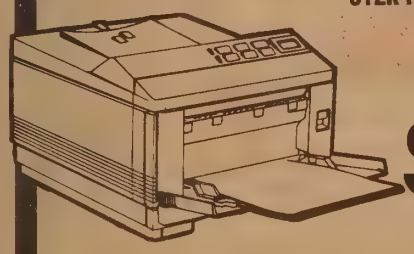

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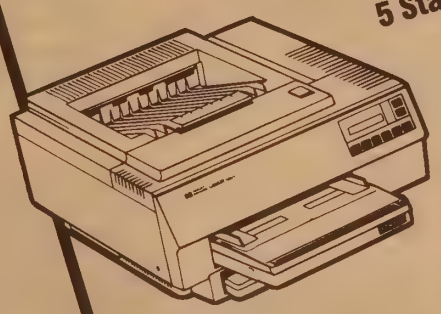

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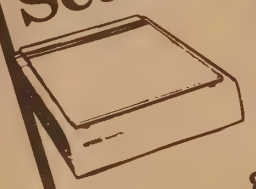

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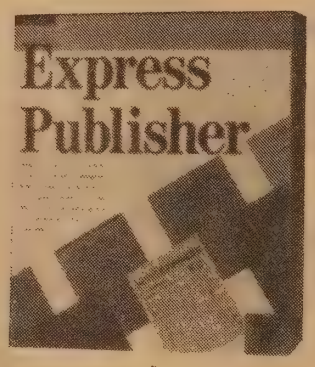

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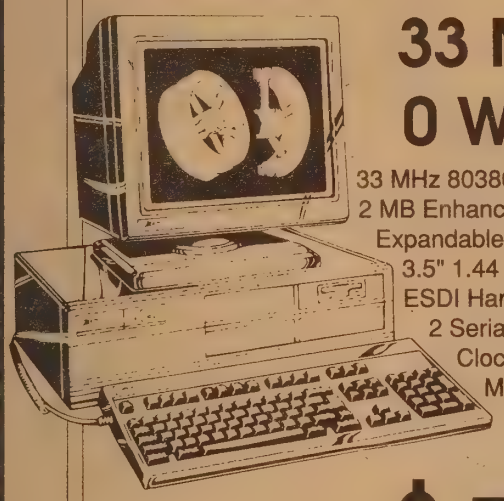

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33 MHz 80386 • 64K Cache RAM
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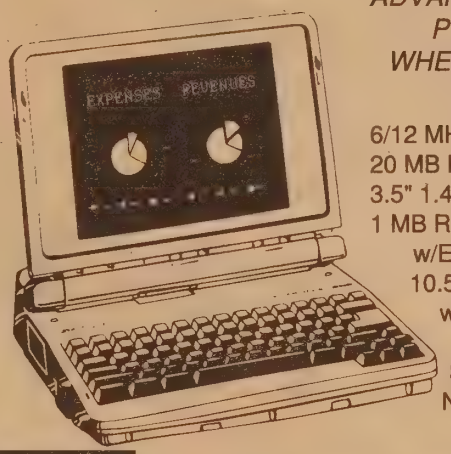

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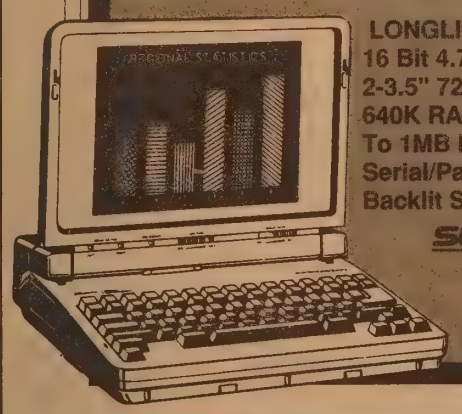

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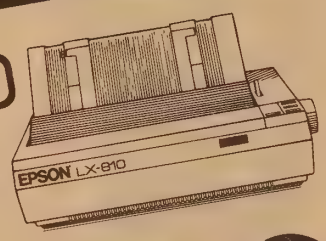

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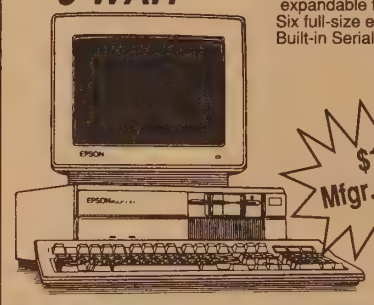

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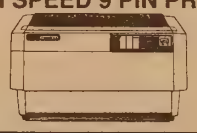

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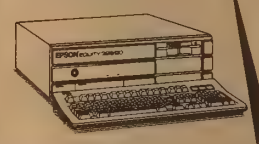

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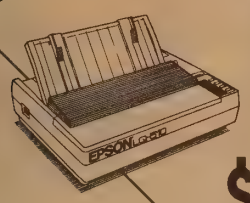

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180 CPS Draft
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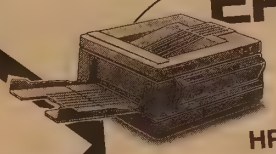

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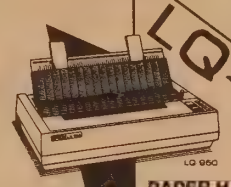

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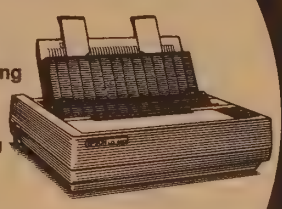

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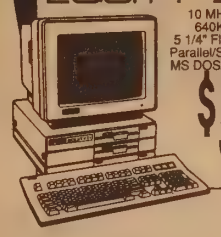

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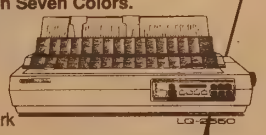
SmartPark let's you handle fanfold paper single sheets,envelopes and forms.



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Selects printing modes,printer settings,SmartPark operations and page-format pre-sets.
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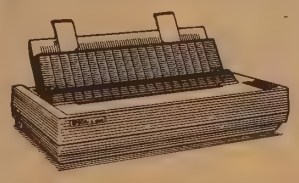

136 Columns Wide
264 CPS Draft Mode
88 CPS in Letter Quality mode for enhanced, high-resolution characters
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SelecType front control panel offers quick, easy selection of popular typestyles,fonts and pitch

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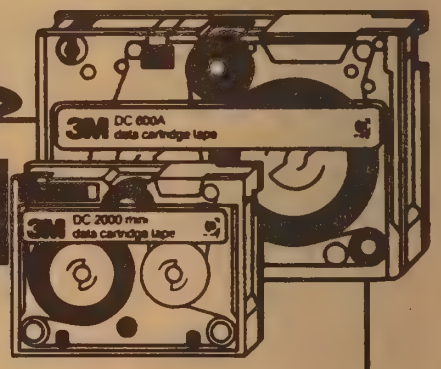

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60MB FORMATTED

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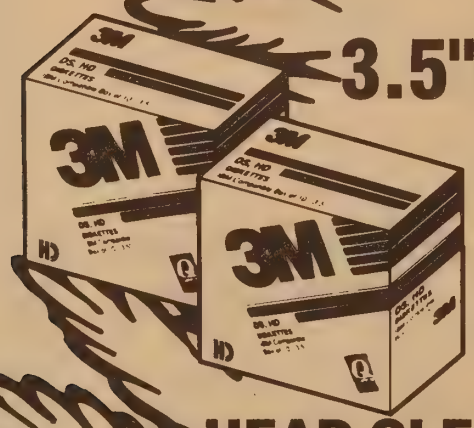

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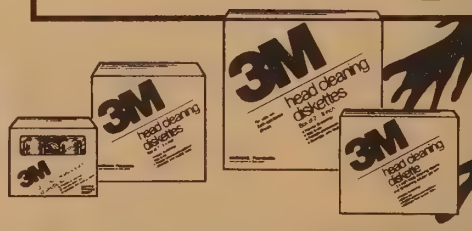

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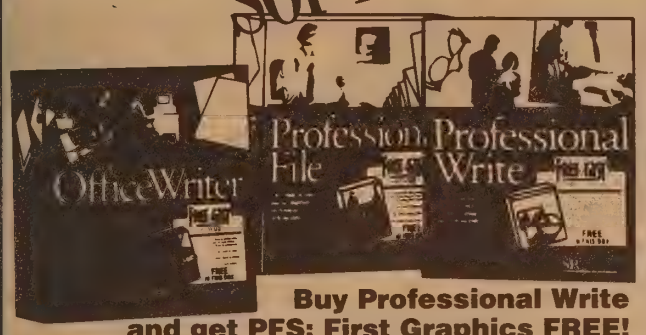

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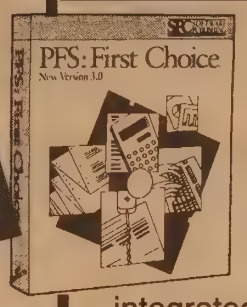

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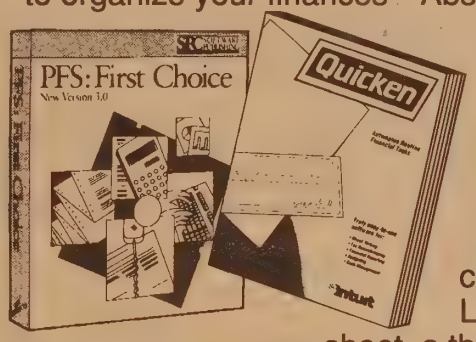

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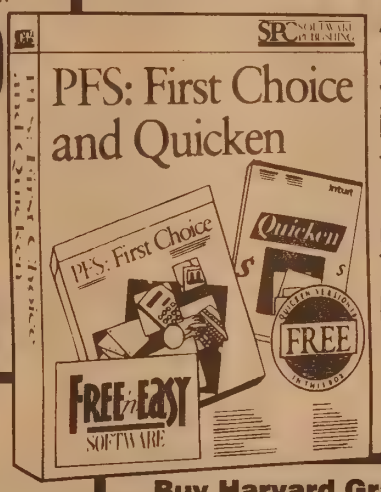

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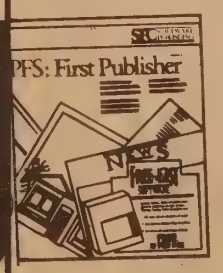

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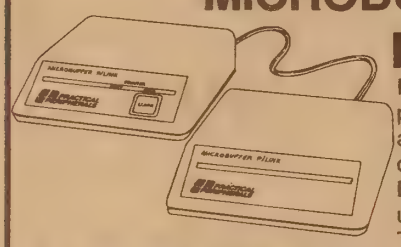

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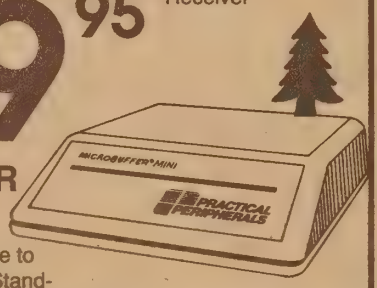

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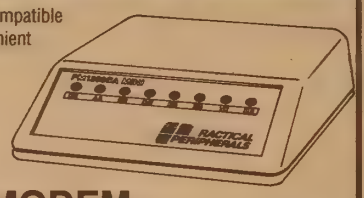

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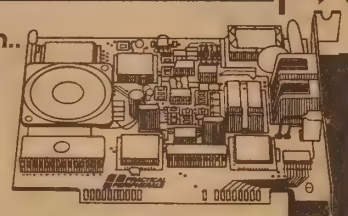

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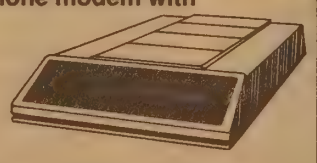

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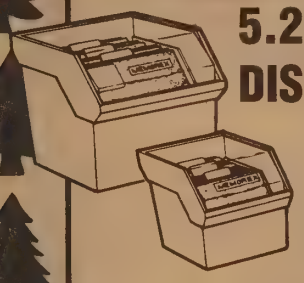

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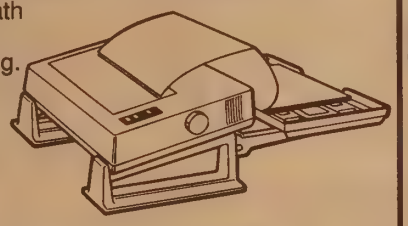

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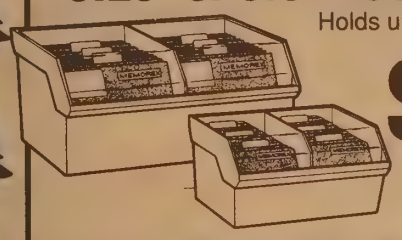

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Now you can use the power of your computer to control the lights and appliances in your home! All without tying up your computer. In the install mode, you select a room in which to install graphical icons which represent what you want to control. Then in the operate mode, you select a room in which the light or appliance you wish to control is located. You use the joystick to point to the icon representing the light or appliance you wish to control. Then point and click to select whether you want to turn it off or on---today, tomorrow, everyday or specific days and then set the time you want it to go off or to be turned on.

The Ultimate Remote Control

Imagine being able to turn on the lights in your home from your car as you enter your driveway. You'll never have to keep a transmitter by the bedside to turn on all your lights if you hear a suspicious noise at night. You can mount the transmitter on a wall and have one in every room to control any light or appliance from any room in your house.

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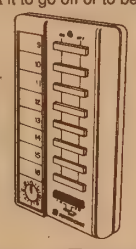

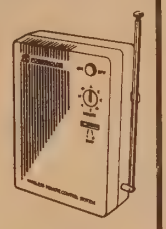

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Controls your lights and appliances from any telephone, wherever you are. Transmit control signals with your 3-digit security code to control up to 8 lights and appliances.

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Mini Controller

Instantly controls 8 lights and appliances throughout the house with the push of a button--from one convenient location.

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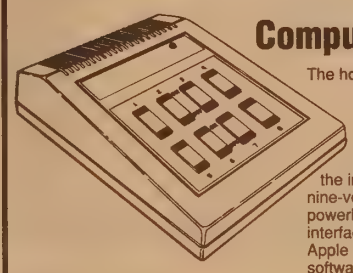

The home control interface is a very sophisticated timer which is programmed from your computer and then disconnected. Simply plug in lamps and appliances into the modules. Program different events for different days. You can even program your lights to dim at a predetermined time. If you don't have a computer at home, you can program the interface at work, pop in a nine-volt battery and bring the powerhouse into your home! The interface available for IBM, Mac, Apple and Commodore, comes with software and connecting cable.

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Lamp Module

Receives signals from the timer or mini-controller to turn lamps on and off anywhere in the house. Full range dimming is possible from the X-10 manual controllers.

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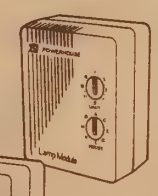

Appliance Module

Receives signals from the timer or mini-controller to turn on and off appliances anywhere in the house.

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Wall Switch Module

Replaces your existing indoor wall switch to control important indoor and outdoor lights: hallway, porch, floodlights, etc.

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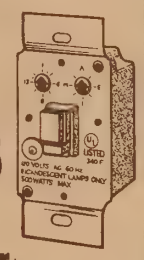

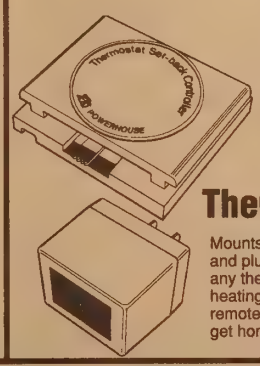

Thermostat Setback Controller

Mounts on the wall under your existing thermostat and plugs into the appliance module. Works with any thermostat so you can automatically set back heating and air conditioning using the timer or remotely turn up the heat/air conditioning before you get home using the telephone responder.

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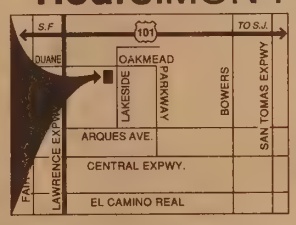

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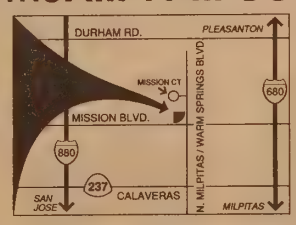

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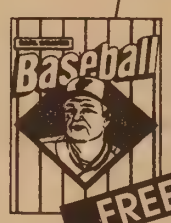

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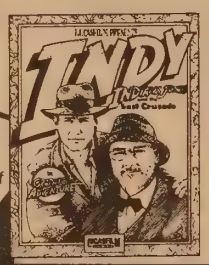

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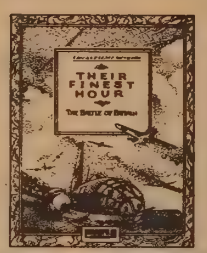

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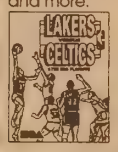

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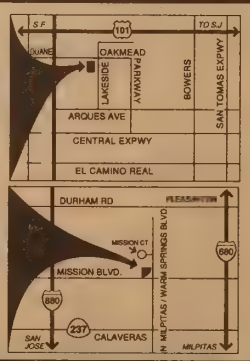

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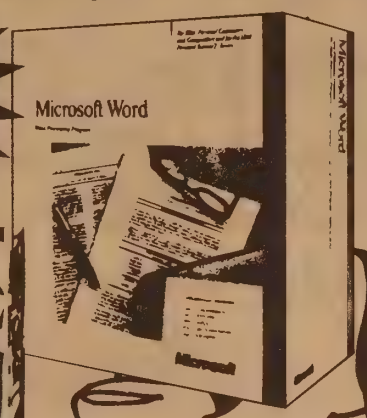

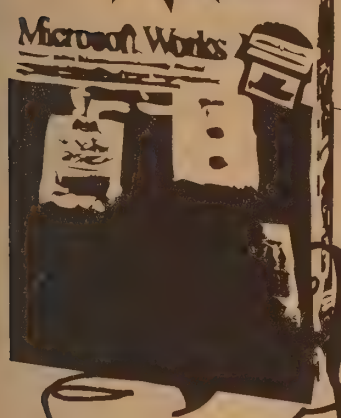

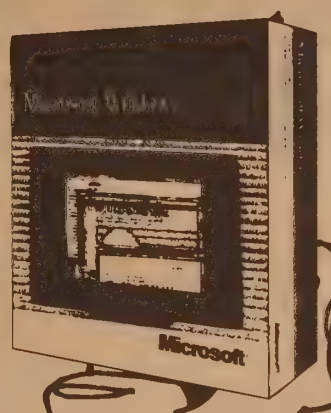

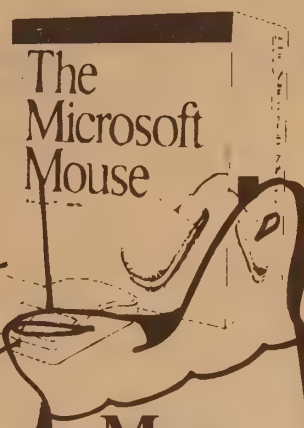

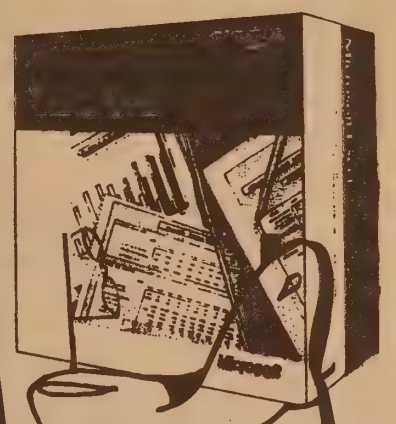

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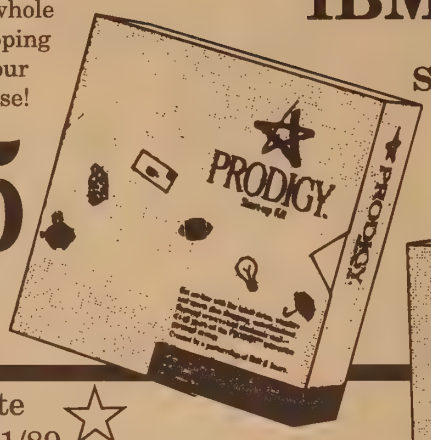

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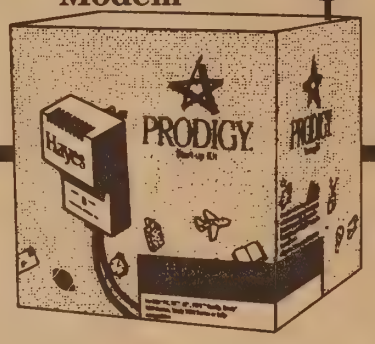

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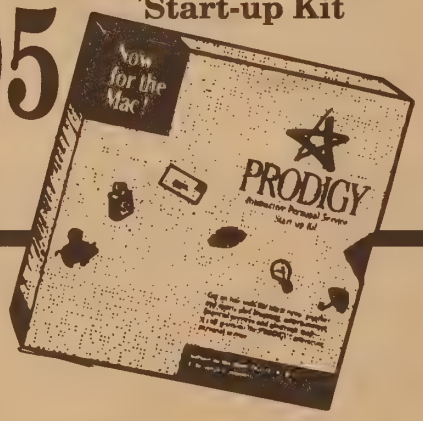

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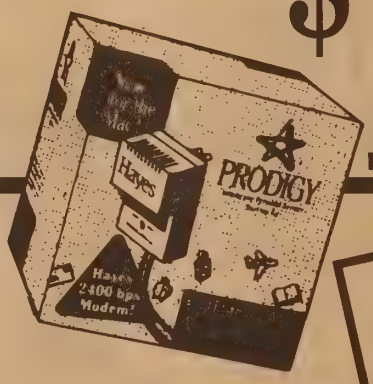

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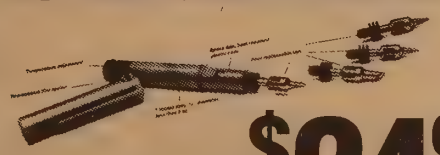

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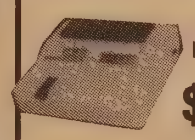

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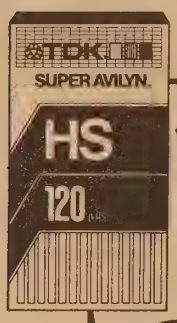

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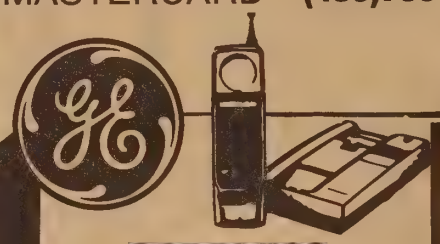

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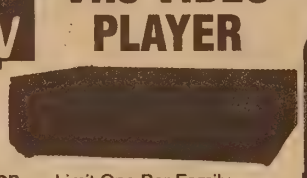

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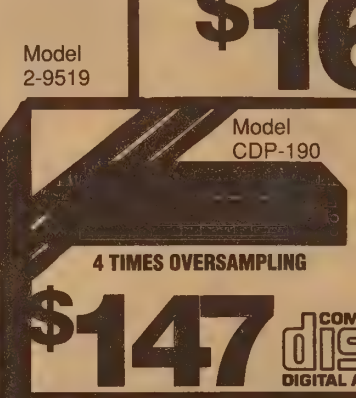

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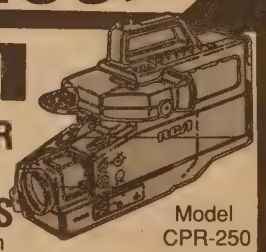

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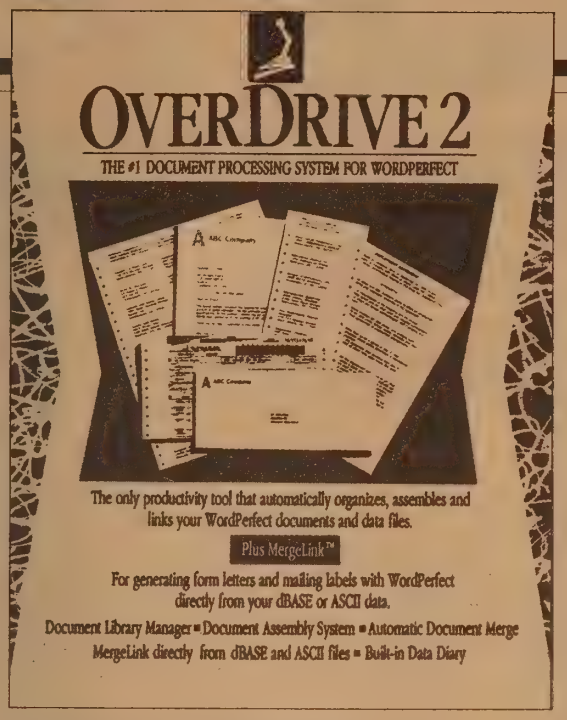
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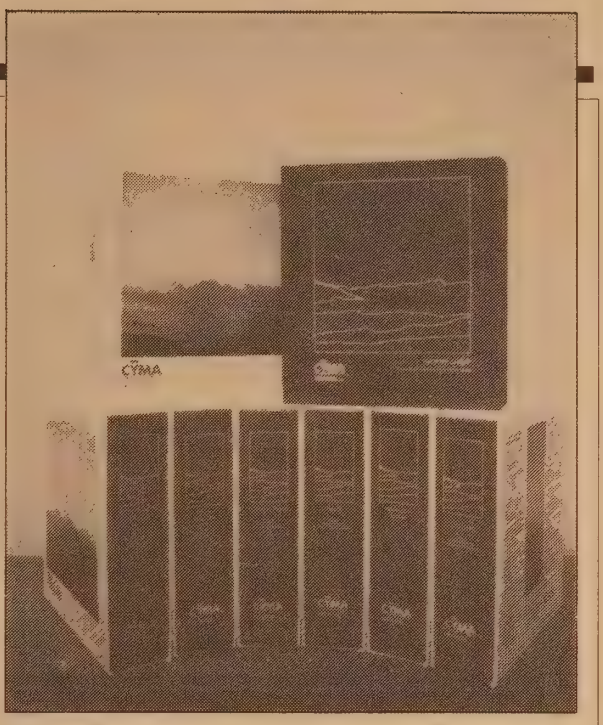

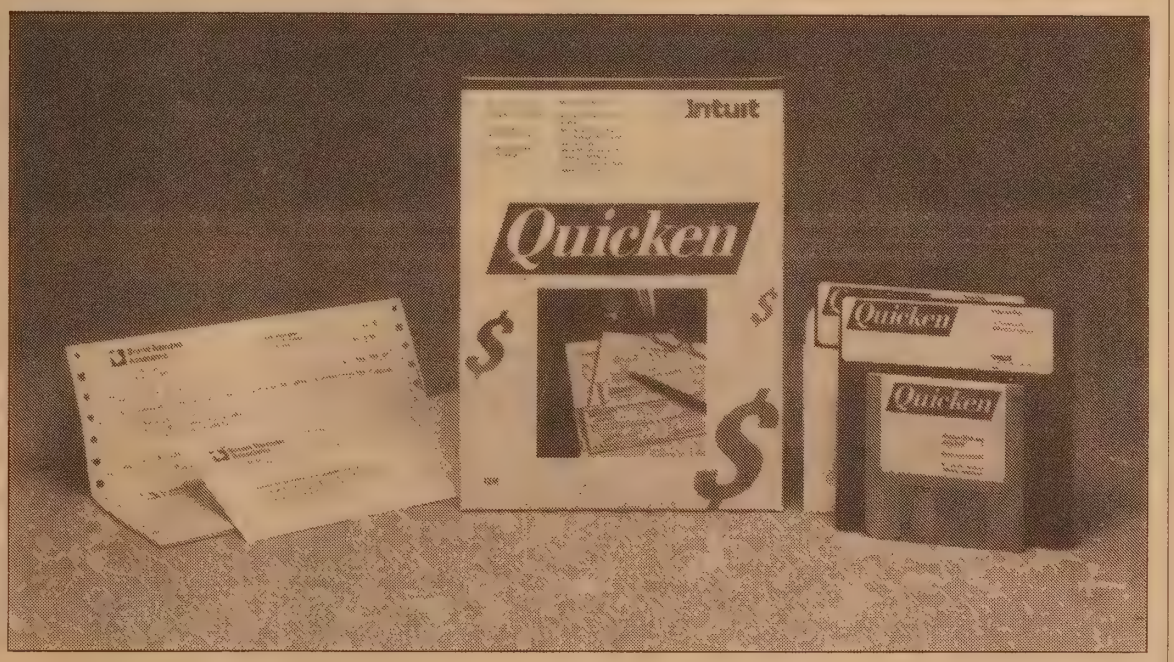

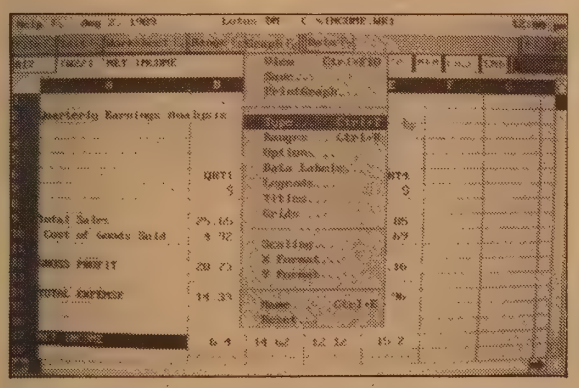

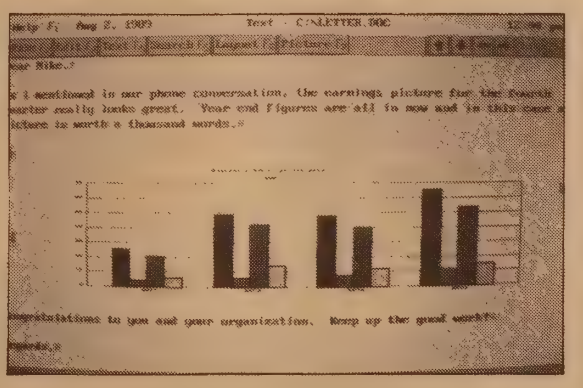

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Lotus Spreadsheet for DeskMate is a software product based on the spreadsheet technology of *Lotus 1-2-3* Release 2.01 and includes the Tandy DeskMate Graphical User Interface. As a fully integrated software package, the *Lotus Spreadsheet for DeskMate* features spreadsheet, database, and graphics, and is designed specifically for the small business and home office PC user. The product provides a feature set comparable to *Lotus 1-2-3*, but does not include macros, the add-in capability, or support for expanded memory. Tandy's DeskMate interface operates on Tandy and other PC-compatible computers and on all classes of hardware from the 8088 to the 386 processor. ($219.95) Sue Jensen, Lotus Development Corporation, 55 Cambridge Parkway, Cambridge, MA 02142. (617)577-8500.

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- 80 X 25 character display
- 640 X 480 resolution at VGA mode
- 640 X 350 resolution at EGA mode
- 640 X 400 resolution at CGA mode
- 640 X 348 resolution at HGC mode
- Screen size: 7.75" X 5.75", 10" diagonal
- Adjustable viewing angle
- External VGA/EGA/CGA/HGC standard port, runs external monitor concurrently

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- 12 MHz zero-wait state motherboard
- 5 expansion slots available
- Detachable 86-key keyboard w/12 function keys
- Built-in hardware configuration setup program
- 1 MB installed (expandable to 4 MB on board)
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- Total one 3.5" & two 5.25" drive bay available
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- Support DOS®, OS/2®, Xenix®, Unix®, Novell®
- 110/220V AC auto-switching; 180W power supply

Weight & Dimension:

- Approximately 22 lbs (with 1 floppy drive)
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Case Features & Accessories

- Reset button, FD/HD & power LED indicators
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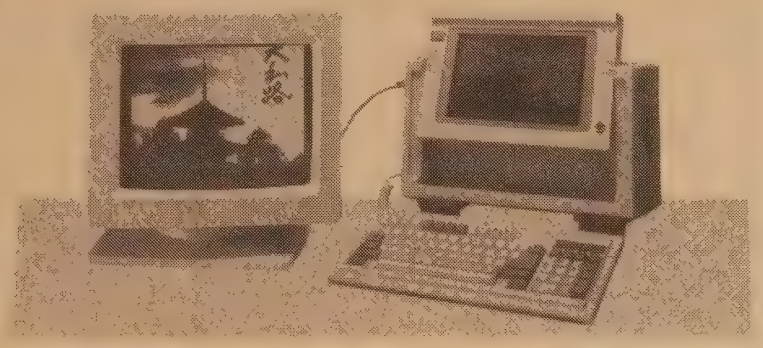

EGA Plasma 286-12 Portable

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Display:

- EGA/CGA/HGC/MDA display modes
- 640 X 350, 16 colors on external EGA monitor
- 640 X 350 resolution, 4 gray scales plasma display

All other specifications are same as VGA model.

CGA Plasma 286-12 Portable

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Display:

- 640 X 400 pixel graphics display
- 80 X 25 characters display
- CGA/HGC/MDA display modes

All other specifications are same as VGA model.

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- Warranty: 1 Year Labor & Parts; Technical Support

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- Intel 80286-12 CPU
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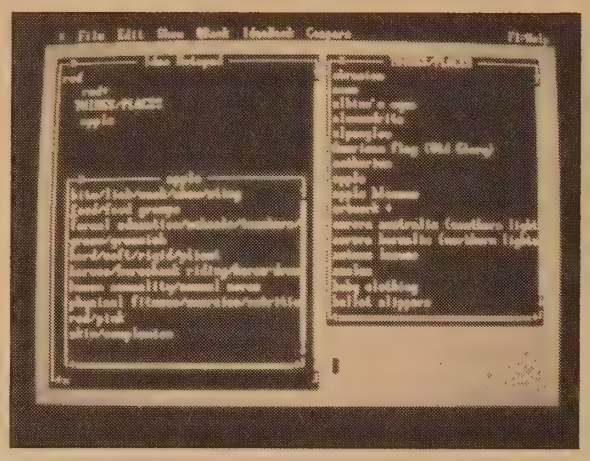
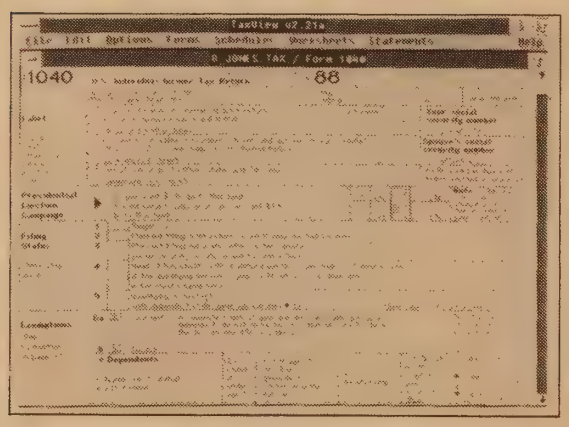


Database Offers Creative Solutions

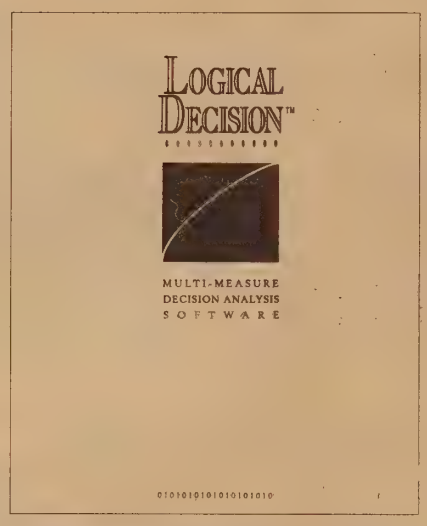
What a conventional dictionary and thesaurus are to words, *IdeaFisher* is to ideas, associations, and concepts, making it a creativity tool with breadth and scope unlike any other. The product performs two distinct functions: the storage and organization of words and concepts. However, rather than listing words along the syntactical guidelines used in a thesaurus, words listed in the program are referenced via loosely defined conceptual rules. For example, the program includes 625 word and phrase associations under the word "red." The vast majority of those entries aren't synonyms or antonyms of the word red but concepts including song titles, slang, technical terms, etc., related to the idea of red. The database can be used by people working in product engineering, product development, marketing, graphic design, system design, fashion design, or any other field where fresh ideas and the time required to generate them are important. In a study conducted at the University of Hawaii, test subjects who claimed to be drained of ideas showed a 90 percent increase in creativity in the same exercise after using *IdeaFisher*. The application runs on any PC XT/AT/386 or compatible with 640 K of RAM and MS-DOS 3.1 or higher. A Macintosh version is soon to be released. ($595) Fisher Idea Systems, (714)474-8111.

Softview Introduces Taxview 1989

Taxview is a set of software applications specifically for tax professionals. It includes the same features as Softview's *MacinTax* personal tax preparation software for the Macintosh and consists of several modules: Taxview 1040, Taxview 1065 (Partnership), Taxview 1120 (Corporation) and 1120-S (S-Corporation), State Supplements, Taxview Integrated Electronic Filing, and Taxview Planner, a multi-year tax modeling program. Because *Taxview* uses Softview's proprietary forms-based technology, it offers users several unique features and

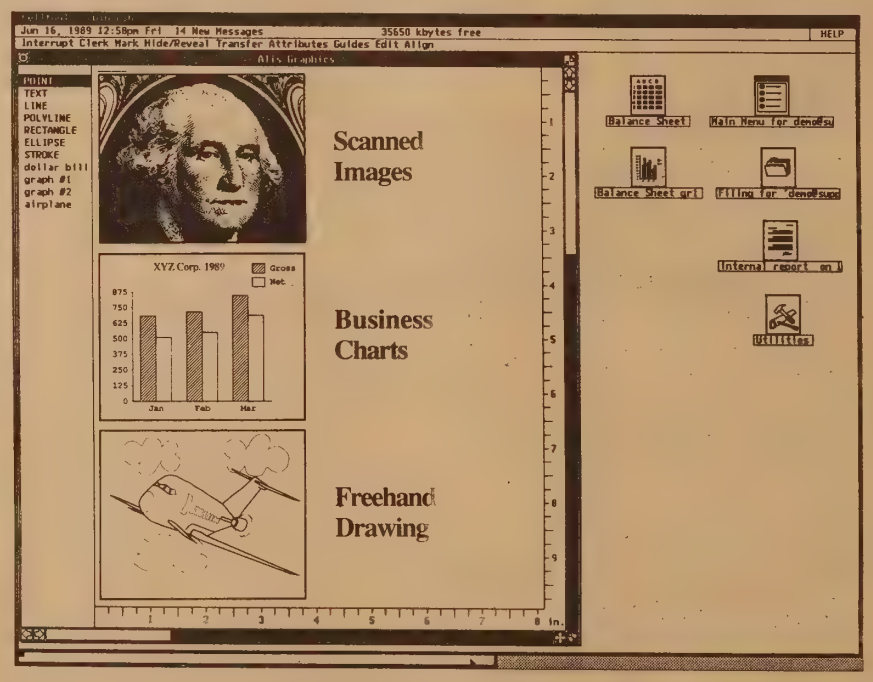


benefits. It prints out exact replicas of IRS forms on plain blank paper, using either a laser or dot-matrix printer, without the need for separate forms software or special font cartridges. IRS forms and schedules are displayed on screen in actual IRS format. Users can enter data directly in displayed forms that are linked together so that as new data are entered, recalculations are performed automatically on all relevant documents. The program also checks all input to prevent inconsistent and incomplete entries. ($150–495 per module) Softview, Inc., Jeff Felder, 1-805-385-5000.



New Software Aids The Decision-making Process

Logical Decision is application software that analyzes your decisions quantitatively. You define a set of alternatives and a set of quantitatively measured characteristics to evaluate the alternatives. Then *Logical Decision* helps you to systematically formulate your preferences about the characteristics and then combines the information to give you a quantitative ranking of your alternatives. *Logical Decision* uses powerful methods from the field of Decision Analysis to help you quantify your preferences. These methods have previously been available only on mainframe computer programs. *Logical Decision*'s interactive features let you evaluate alternatives instantly once the alternatives and your preferences have been quantified. ($295) Logical Decisions, 164 E. Scenic Ave., Point Richmond, CA 94801. (415)233-8920.



Alis Provides Office Automation On A Network

Alis office automation software from Applix provides comprehensive office automation capabilities on networked computer systems from different vendors for IBM RT computers running AIX. *Alis* is integrated office automation software that provides word processing, spreadsheet, graphics, database, calendaring, and electronic mail capabilities. Users can combine text, graphics, and data elements in a single document, edit the document without switching from program to program, and transmit the document to any other system in a network that runs *Alis*. *Alis* runs on networked DOS-based computers, Ultrix and VAX/VMS systems from DEC, and UNIX-based systems from IBM, Sun, H-P/Apollo, and other vendors. Applix, Inc., 112 Turnpike Road, Westboro, MA 01581. (508)870-0100.

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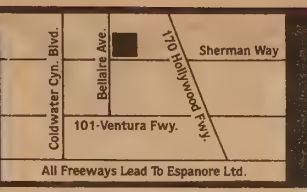

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4"x17/16"	1000		4146	8.50
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2¾"x2¾"	250	3.5" Disks	4241	12.95
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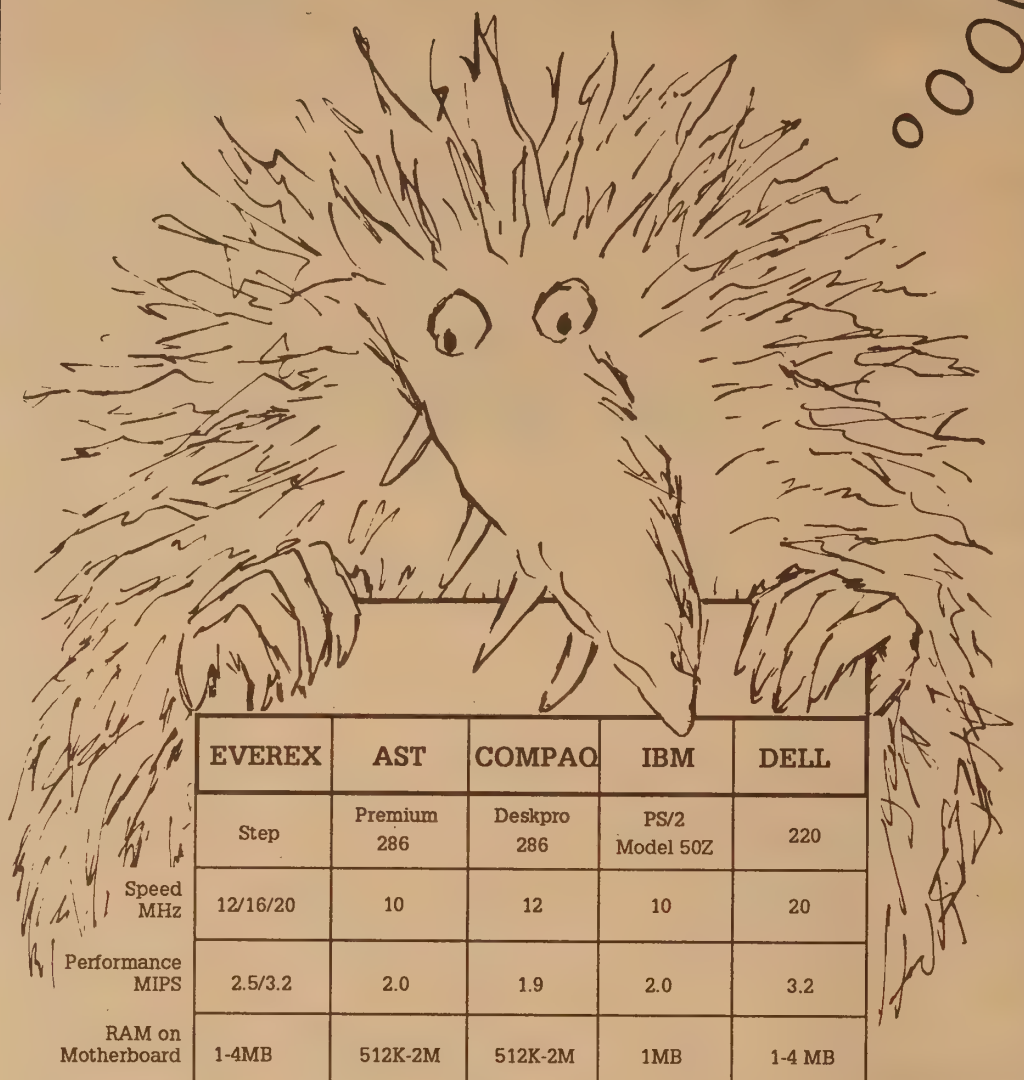

	EVEREX	AST	COMPAQ	IBM	DELL
	Step	Premium 286	Deskpro 286	PS/2 Model 50Z	220
Speed MHz	12/16/20	10	12	10	20
Performance MIPS	2.5/3.2	2.0	1.9	2.0	3.2
RAM on Motherboard	1-4MB	512K-2M	512K-2M	1MB	1-4 MB
HD Interleave	1:1	1:2	1:2	1:2	1:1
Programmable LED	Yes	No	No	No	No
Slots/Drive Bay	8/5	8/5	8/5	3/2	3/2
OS/2 Support	Yes	Yes	Yes	Yes	Yes
Warranty	1yr on-site	1yr carry in	1yr carry in	1yr carry in	1y on site
386 Expandability	Yes	Yes	No	No	No
AMMA Cache	Yes on 28620	No	No	No	No

Often in this crazy industry, a newcomer seems to suddenly leap into the scene and takes the industry by storm. Such is a company called **EVEREX**.

In less than a year, **EVEREX** has introduced and delivered more models of computers than most companies since the dawn of our industry. From its 286/12 to its 386/25, these computers offer uncompromised performance at unsurpassed values. **INTERNATIONAL MICRONET** takes great pride in offering the **TOTAL EVEREX SOLUTION.** Call us for a complete line of Everex products. You'll be assured of quality service, knowledgeable staff and competetive prices.

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Computers are generally measured in terms of their ability to process data. Generally, the industry standard for such a measurement is MIPs or millions of instructions per second. Just take a look at the chart for your own conclusion.
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The **EVEREX** computers give you full Diagnostics upon power up in a very readable 8 digit display in the front panel.
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EVEREX computers are available in small and large footprints. The small footprints have 8 available slots and 5 half height drive bays.
7. DOS 3.3 is standard. **8. OS/2**
Most vendors like to hide the fact that OS/2 is vendor level specific. This means vendors seeking to have OS/2 compatibility have to provide you with their version of OS/2. **EVEREX** has a version OS/2 available as an option for their machines.
9. Warranty
EVEREX computers and all **EVEREX** components -- including hard disks, monitors, and peripherals come with a full year of on-site warranty. This service is provided through NCS which has 106 locations nationwide.
10. 386 Expandability
All **EVEREX** 286 computers with the exception of the 286/20 can be upgraded to a 386 through a user installable kit. This transforms your 286 PC into a 386 using the 80386SX.
11. The STEP computer uses a large cache of very high speed static RAM which allows the processor to operate with zero effective wait states. The SRAM cache is implemented via **Everex's** Advanced Memory Management Architecture which provides higher throughput than is available with caching schemes available on other PC-compatibles.
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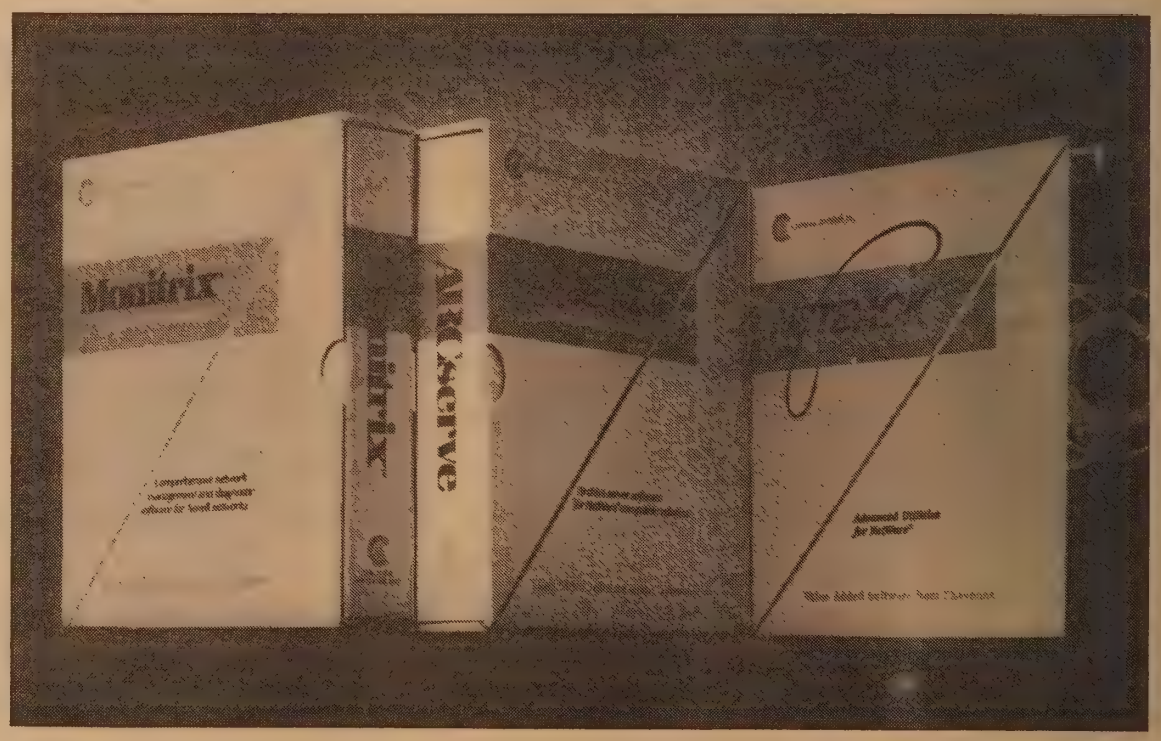
PC LAN & MULTI-USER BUYERS GUIDE

NEC Diagnostic Modem Reduces Leased-line Costs

Network managers can reduce the cost of operating a leased-line modem network, increase the efficiency of the link, and control the network with the new 19,200 baud stand-alone diagnostic modem from NEC. The SPN19275M includes as standard features an internal dial backup unit, automatic speed fall back and fall forward, data branch, and a six-port time division multiplexer. It also has built-in capabilities that allow managers to monitor, test, and control an entire modem network from the central site modem. The SPN19275M transmits user data over the primary communications channel at 19,200 bits per second while performing non-disruptive network monitoring functions via a 75 bit-per-second side channel. If problems occur with the modem link, alarm information based on threshold values appears on the front panel. If the data is affected, the modem can automatically fall back to a preset speed then automatically fall forward again when line conditions improve. ($7495) NEC America, Inc., Data and Video Communications Systems Division, 110 Rio Robles, San Jose, CA 95134. (408)433-1250.

Lanserv Offers Fault-tolerant Storage For NetWare Users

Lanserv Corporation has introduced its Lanserv FT series of high-capacity (up to 1.2 Gb) fault-tolerant file servers for Novell SFT NetWare and NetWare 386 local area networks. Twin disks operate in either mirrored or duplexed mode. If the primary disk should fail, the second immediately takes over with no loss of data. An 80386-based SCSI interface provides fast data throughput plus the flexibility to accommodate optical or tape drives in addition to magnetic drives. The file servers provide for ten half-height or five full-height drive bays.The Lanserv FT series is available with the Novell system software already loaded on the file server, thereby allowing the file server to be installed faster. ($7495–14,495) Lanserv Corporation, Creek Court, San Jose, CA 95125. (408)293-4888.



Cheyenne Offers Three Network Solutions

Cheyenne, an independent software vendor for Novell, offers the LAN user three software solutions: *ARCserve*, *Monitrix*, and *NetBack*. *ARCserve* is a centralized backup/restore solution which allows all users on a network to share the archiving device, whether disk, tape, Bernoulli box, or optical disk. *ARCserve* runs in the background in the server without requiring a separate box. *Monitrix* is the first full-function network management and control program that gives a LAN administrator mainframe type control on a local area network. It provides network performance statistics for diagnosis, troubleshooting, and capacity planning. As a VAP, *Monitrix* provides background monitoring of network resources such as printers and network disk space. *NetBack* is a set of NetWare utilities providing an array of vital network management tools. The package integrates flexible file-management features with the ability to quickly construct or reconstruct a server's bindery. This allows network administrators to rapidly restore crashed servers, create new servers, or upgrade NetWare versions within minutes, without the need for tedious rekeying. Cheyenne, Inc., 55 Bryant Ave., Roslyn, NY 11576. (516)484-5110.

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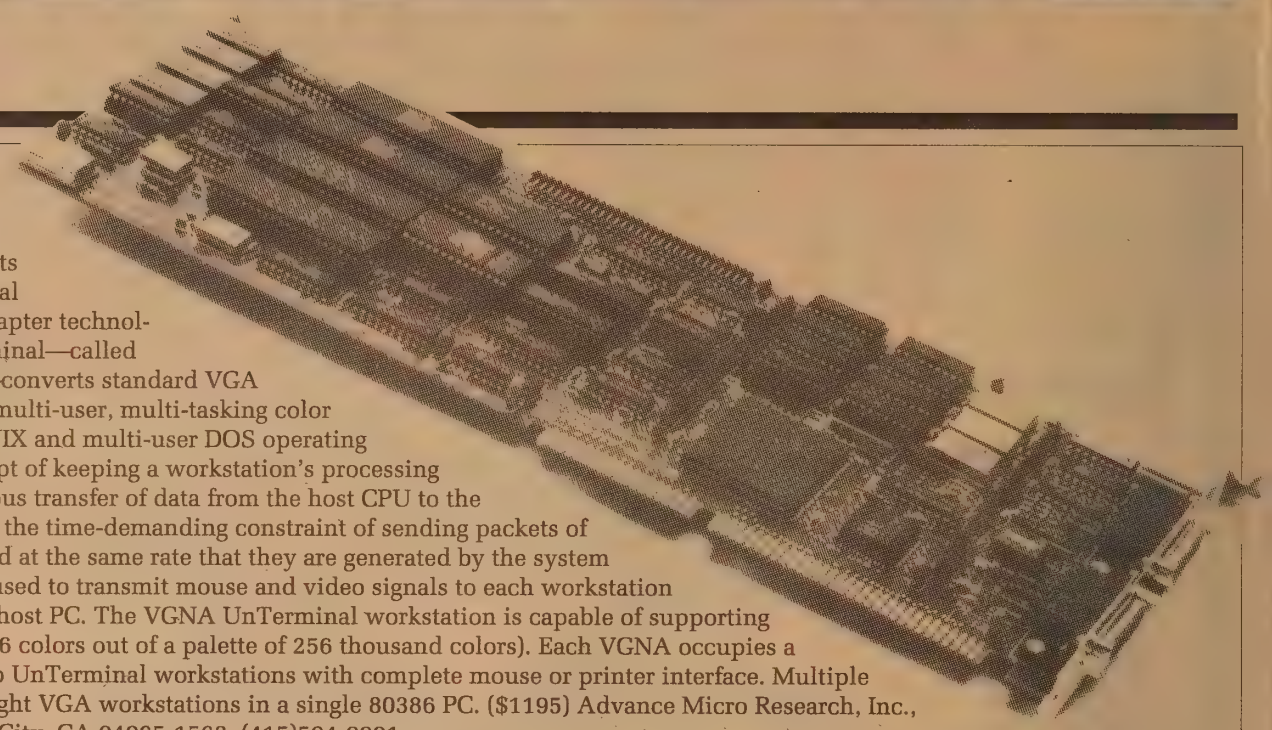
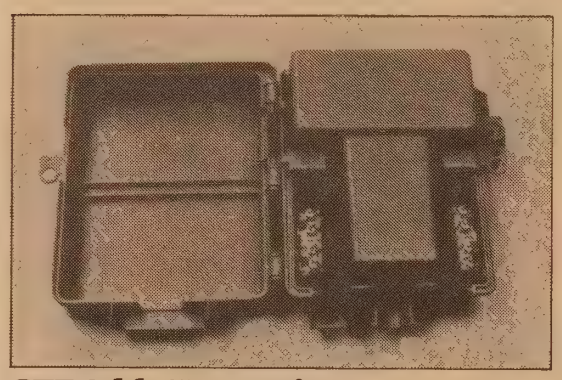


Advance Micro Ships Color UnTerminal

Advance Micro Research, Inc. has shipped its VGA version of the monochrome UnTerminal workstation based on its Video Network Adapter technology (VNA). The VGA version of the UnTerminal—called VGNA (Video Graphics Network Adapter)—converts standard VGA monitors and PC keyboards to inexpensive multi-user, multi-tasking color graphic workstations under SCO XENIX/UNIX and multi-user DOS operating systems. VNA technology applies the concept of keeping a workstation's processing engine on the PC bus during the instantaneous transfer of data from the host CPU to the workstation's display memory—eliminating the time-demanding constraint of sending packets of data. Multi-color VGA graphics are generated at the same rate that they are generated by the system processor. State-of-the-art multiplexers are used to transmit mouse and video signals to each workstation located several hundred feet away from the host PC. The VGNA UnTerminal workstation is capable of supporting an extended color resolution of 800 x 600 (16 colors out of a palette of 256 thousand colors). Each VGNA occupies a full-size PC expansion slot and supports two UnTerminal workstations with complete mouse or printer interface. Multiple adapters can be installed to support up to eight VGA workstations in a single 80386 PC. ($1195) Advance Micro Research, Inc., Paragon Point/One Lagoon Drive, Redwood City, CA 94065-1562. (415)594-9991.

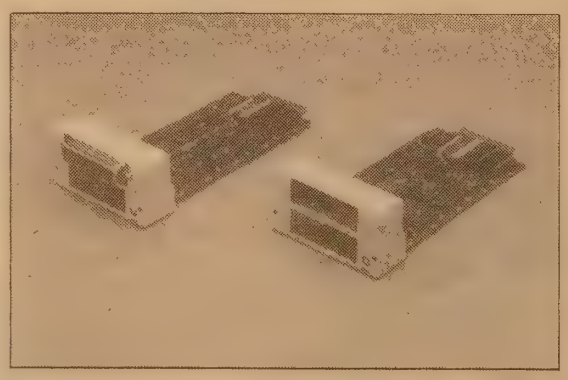


GTE Adds Two-pair Network Interface

GTE has added to its family of telecomm network products a new two-pair network interface device. This device, called the CP-830, is designed to provide a distinct demarcation point between the telephone company line and the customer's wiring, as required by FCC Part 68. This unit also provides adjustable card slots and mounts a variety of protection devices. It can be used indoors or outdoors for new or existing installations where the protector, interface, and station electronics can be mounted together. The CP-830 offers complete security for the customer and the telephone company, with an override feature and side-hinged covers for easy servicing. GTE Electrical Products Group, 100 Endicott St., Danvers, MA 01923. 1-800-392-3908.

Motorola Releases Desktop Servers

Motorola has released a line of desktop servers to provide small businesses, departmental workgroups, and distributed processing customers with UNIX platforms that are easily networked and powerful enough to run large databases and networked applications for PCs and terminals. The new Delta Series 3000 Model 3200 network servers are based on the company's MC68030 microprocessor and deliver clock speeds of up to 25 MHz. The servers fill in the low end of MCSD's line of multi-user, multi-processor computer systems and provide a growth path from systems supporting from four to more than 500 users. The new systems use the System V/68 operating system, Motorola's implementation of AT&T's UNIX System V Release 3. Compliance with the industry standard VMEbus architecture and the UNIX System V Interface Definition ensures that the Model 3200 can support peripherals, components, and applications designed to run on any other MCSD computer. The Model 3200 comes in two configurations, the difference being clock speed, an on-board network interface, and memory capacity. ($7495/19,785) Motorola Inc., Computer Systems Division, 10700 North De Anza Blvd., Cupertino, CA 95014. (408)864-4480.



Laserplex Provides Transparent Spooling For Up To Eight PCs

Laserplex is a hardware spooler designed for the H-P LaserJet series II & IID printers. The Laserplex plugs into the Optional I/O slot at the back of the LaserJet. Once installed, it acts as an intelligent buffer, spooler, and switch-box integrated right inside the LaserJet and takes no room on the desktop. Available in two models—the Model 50 for sharing by five PCs has one parallel and four serial inputs and the Model 80 for sharing by eight PCs has eight serial inputs—the Laserplex can be set to "Turbo" speed of 57,600 baud, which means the user can print three times faster than through the LaserJet's built-in serial port. The Laserplex can receive data from all connected computers simultaneously. A powerful yet easy to use command protocol enhances the capability of the Laserplex with features such as multiple collated copies, separate and individualized printer setup and reset strings, and end-of-printjob timeouts. ($495/595) Laserplex Corporation, 510-A Valley Way, Milpitas, CA 95035. (408)946-2298.

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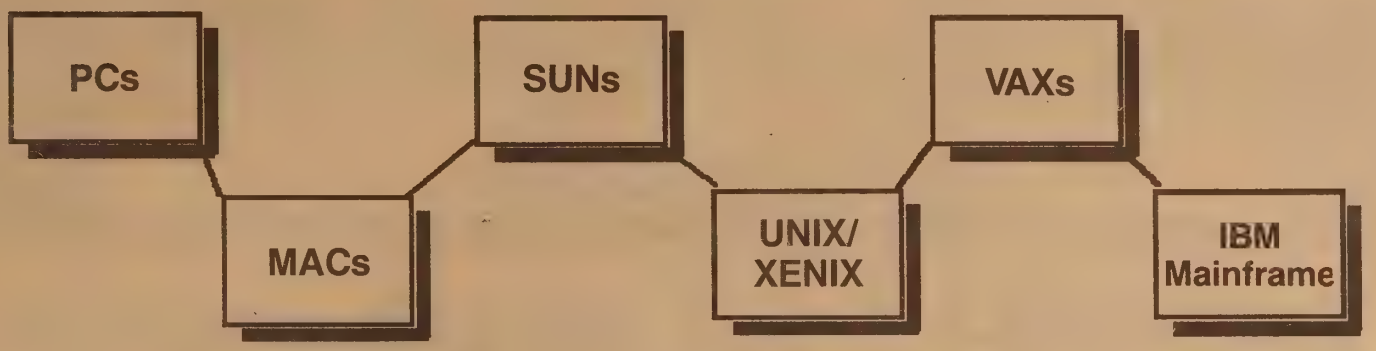

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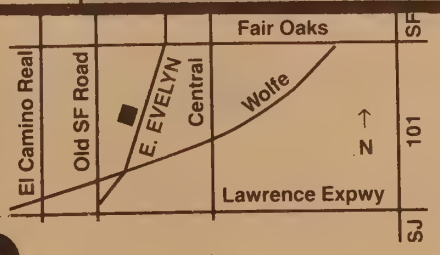

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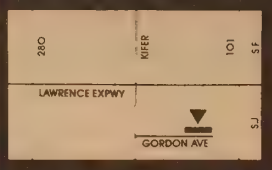

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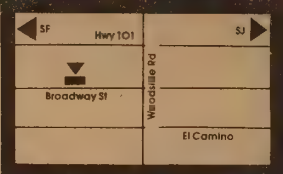

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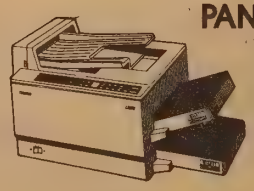

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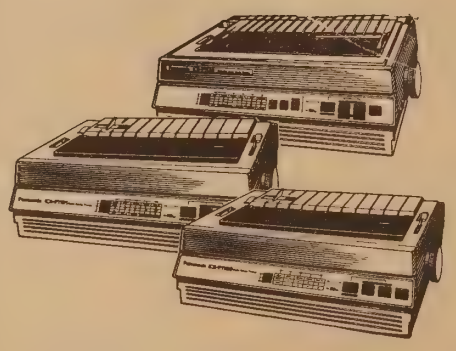

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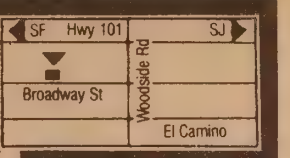

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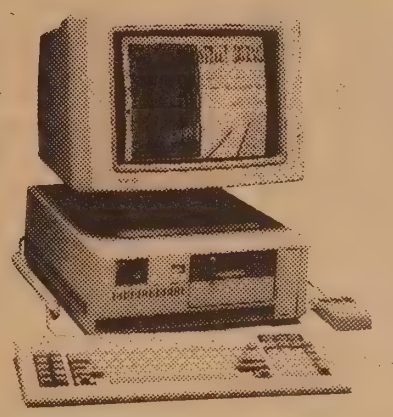

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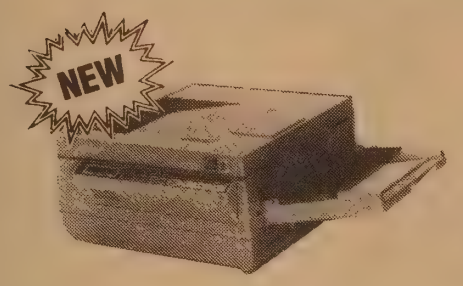

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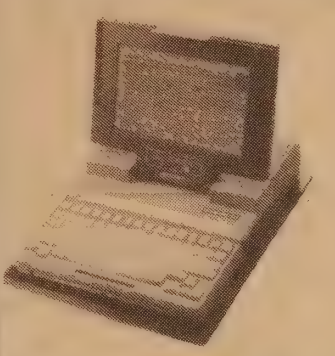

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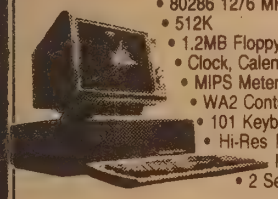

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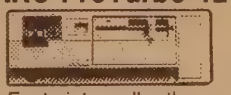

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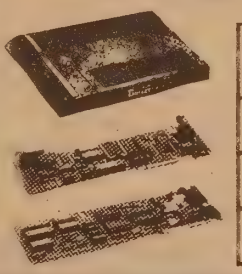

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Okidata 391 (272, 132, 24)	649
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Logitech Serial w/Pop Up DOS	99
Mitsubishi Mouse 400 DPI	105
Microsoft Serial w/Paint	115
Microsoft Serial w/Autosketch Optical	109

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80286/80386 Case with 200 Watt	$165
80286/30386 Case	69
8088 Case	39
Mini Tower Case w/PS	135
Tower Case w/Power Supply	259
150W Power Supply for 8088	59
200W Power Supply for 80286/80386	69
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Seagate ST225 20MB w/Kit	265
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Seagate ST4096 80MB 28ms	575
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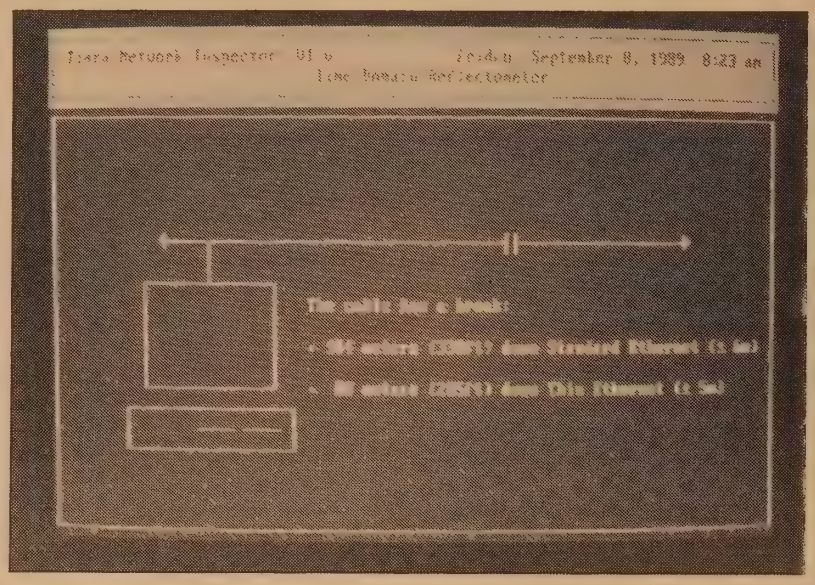
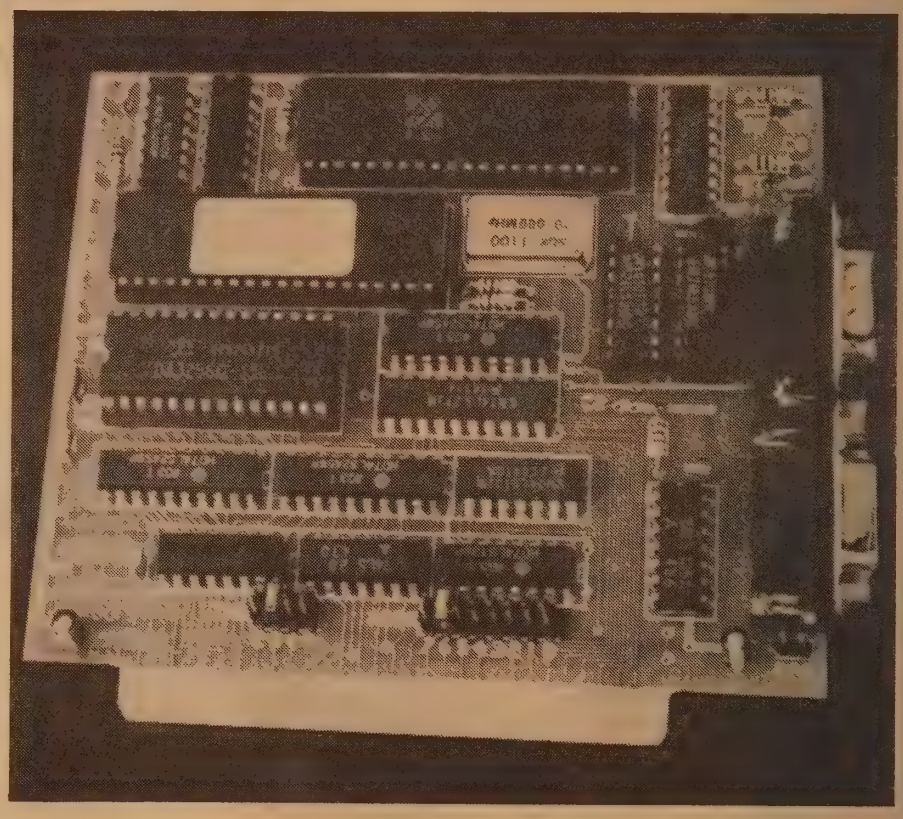
Everex Magic Mini Card	45
Everex Mini I/O for 80286/20386	59
Everex Multi I/O for 80286 Memory	119
Everex Multi I/O for 8088 Memory	99
U.S. Robotic 2400	179
Everex 1200 Internal	69
Everex PS/2 1200 Internal	199
2400 Internal Modem	110
Everex Pocket Modem	105

PC LAN & MULTI-USER BUYERS GUIDE



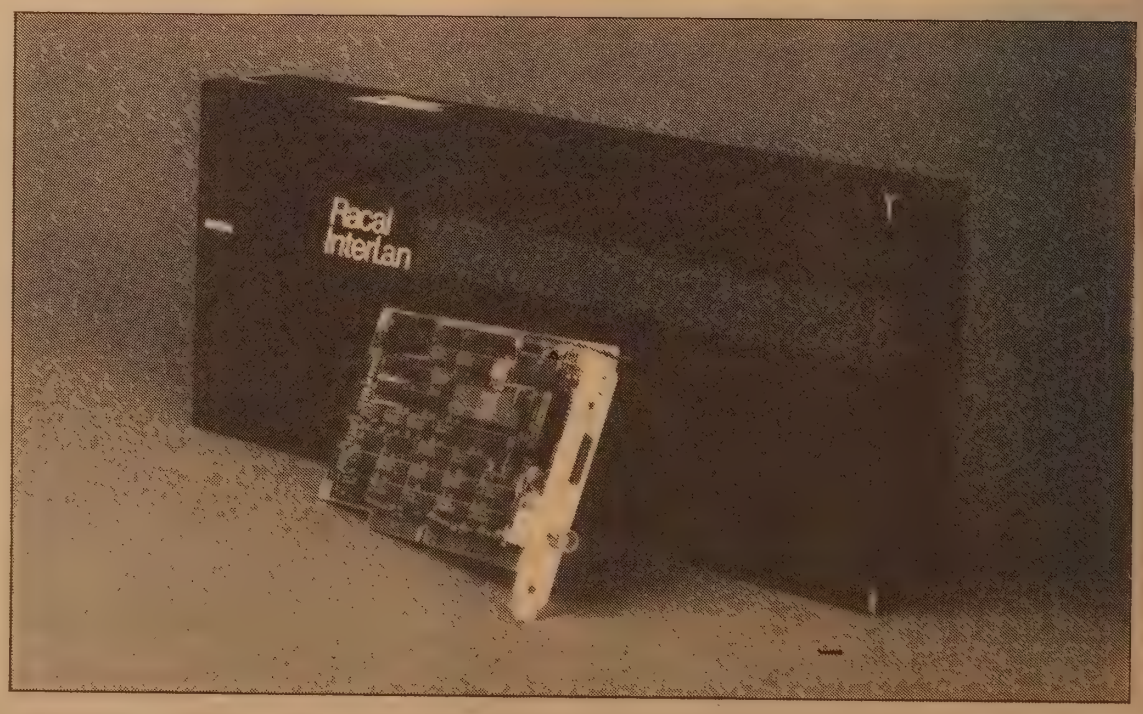
Network Inspector Keeps Networks At Peak Efficiency

The *Network Inspector* is a menu-driven suite of network monitoring functions and diagnostic tests including node and system statistics; packet address and type filtering; and a Time Domain Reflectometer. The software enables system administrators to identify hardware failures, locate cable breaks, pinpoint babbling nodes, and monitor network usage. Most functions can be performed transparently while the network is running. This enables users to continue their applications while the system administrator tests or monitors one or many stations. The *Network Inspector* for Ethernet-based local areas is available now, and ARCnet and Token-Ring versions will follow. ($1295) Tiara Computer Systems, Inc., 2700 Garcia Ave., Mt. View, CA 94043. 1-800-NETIARA.



LANtastic Forms Peer-to-Peer Networks

LANtastic NOS is a true peer-to-peer network that allows you to share peripherals located on computers across a network. You do not have to dedicate a server to support the network; any computer on the network is a fully functional workstation and/or server. Databases, accounting packages, spreadsheets, and other multi-user programs written to the PC-DOS/MS-DOS 3.1 file and record locking standard will work correctly using LANtastic NOS. The system includes two levels of security: 1) Username and password security, and 2) Access Control Lists (ACL) that control access to network subdirectories and devices. Users cannot gain access to a network subdirectory until they have been added to the ACL list for that subdirectory by the Network Manager. The LANtastic NOS license allows up to 120 servers on the network with as many as 120 users logged into each server. Artisoft Inc., 3550 N. 1st Avenue, Suite 330, Tucson, AZ 85719. (602)293-6363.



16-bit Ethernet Network Controller For NetWare

Racal InterLan has introduced a 16-bit Ethernet network controller for performance-sensitive networks using Novell NetWare workstations and servers. An externally mounted switch allows users to easily configure the controller to run PC AT-based NetWare systems on either thick or thin Ethernet. The initial set of software drivers that will be released with the product are workstation and server drivers for Novell NetWare 286 V2.15, a NetWare V2.15 client driver wit TCP/IP, menu-driven diagnostics, and a boot ROM driver for use with diskless PCs. In addition to a driver development kit, additional drivers will be forthcoming for such popular network operating systems as LAN Manager and 3+ Open. ($495) Racal-InterLan, Inc., 155 Swanson Road, Boxborough, MA 01719. (508)263-9929.

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80C286, 1 MB RAM,
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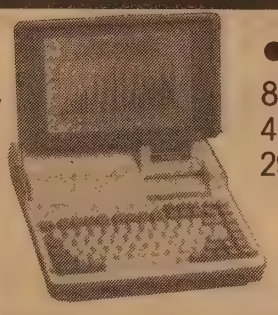

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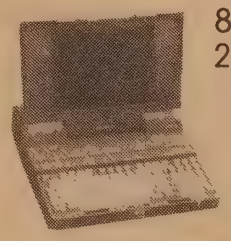
80386, 2 MB RAM,
40 MB HD, 1.44 fl.,
29 MS, VGA
$4595



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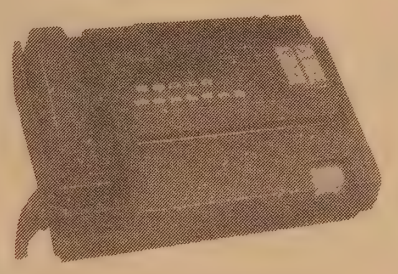

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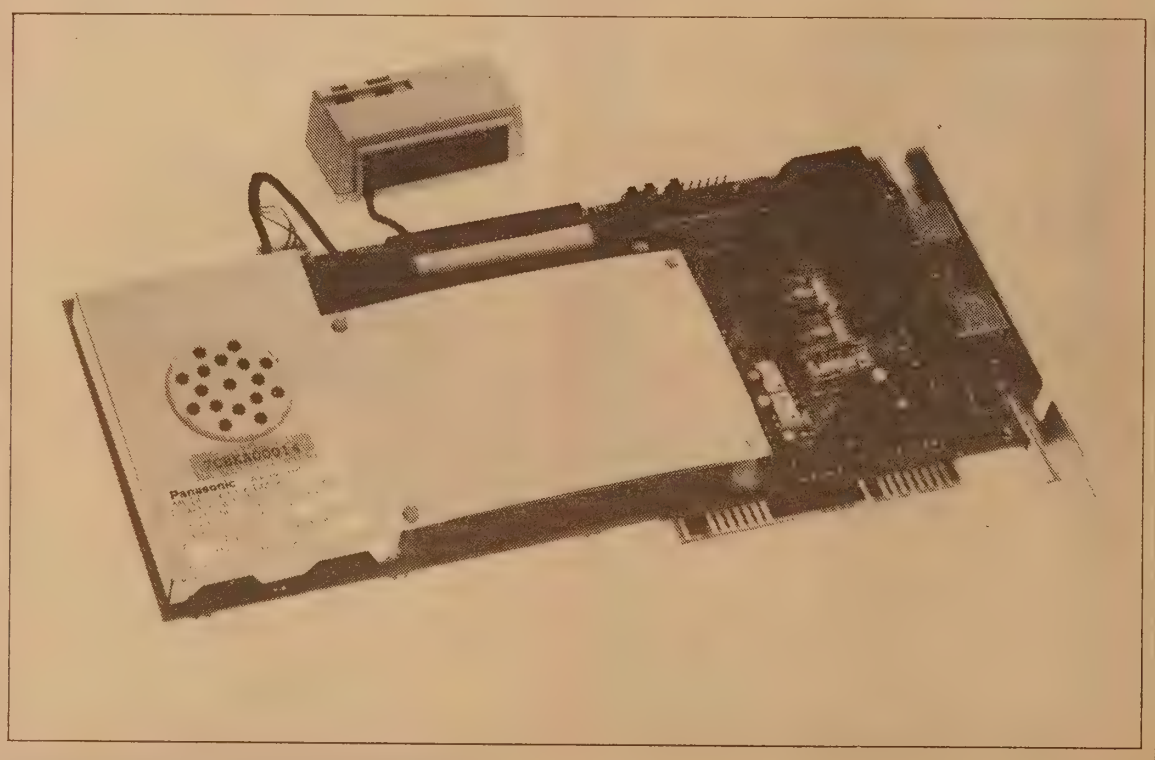
PC TELECOMMUNICATION BUYERS GUIDE

Practical Peripherals Offers MNP Level 5 Modems

The PM2400 SA MNP standalone and PM 2400 MNP internal modems are 100 percent Hayes compatible and support the Microcom Network Protocol Level 5 (MNP), offering totally error-free data exchange during interactive connections with throughput rates up to 4800 bps. Other features include non-volatile RAM that stores user configuration profiles, accommodating two different stored profiles and four telephone dial strings. All modem settings are software controllable, and numbers can be dialed from the terminal screen. Three different modem status screens are available allowing users to view configuration parameters. The PM2400 SA MNP can be used with any computer or terminal supporting an industry standard RS232C serial port. It has seven front panel mounted LEDs, including two multicolor LEDs for MNP functions. Error correction in progress is indicated as well as speed of DCE-DCE connection or DTE-DCE link. The PM2400 MNP can be installed in any standard bus IBM PC, XT, or AT compatible computer. The half-card board requires a single short slot. An external dip switch sets the modem for com port 1 through 4. Both modems come with a 5-year warranty. ($299/249) Practical Peripherals, 31245 La Baya Drive, Westlake Village, CA 91362. (818)706-0333.

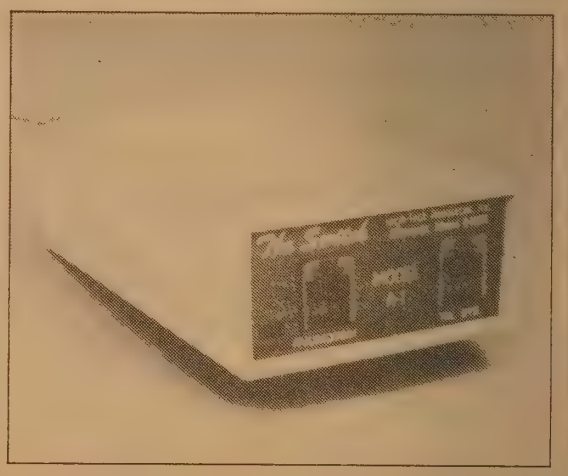


Panasonic Unveils Fax Board With Background Operation

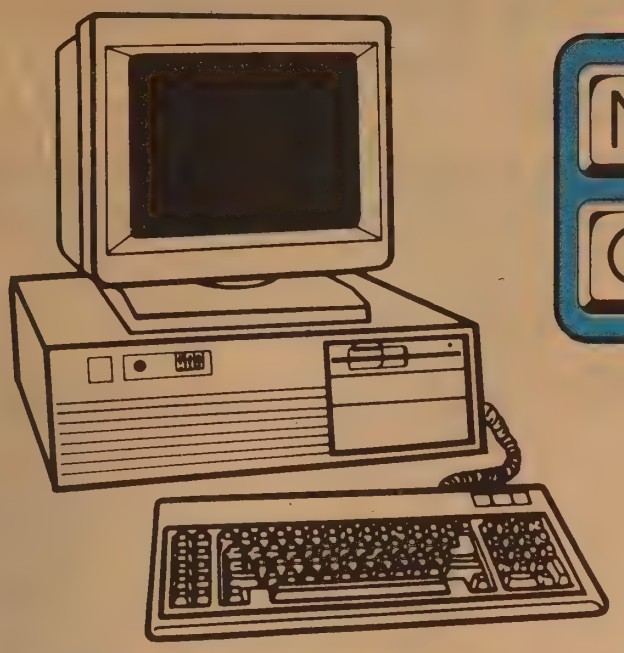
The FX-BM89 Plus2 Partner is a low-cost, full-featured PC-fax board that allows user to send and receive fax messages while continuing other computer applications. The fax board also offers the convenience and efficiency of an automatic print mode and an enhanced view function from previous models. Using the menu-driven software, the fax board can send and receive documents to and from all Group III facsimile machines. Users are alerted to incoming messages by an LED indicator that appears on the screen, and the incoming messages are automatically printed out on a dot matrix or laser printer. ($599) Panasonic Office Automation, Two Panasonic Way, Secaucus, New Jersey 07094. (201)348-7183.

Fax/Modem Switch Automatically Directs Calls

The Switch Model A-1 discriminates between incoming calls, routing fax calls to the fax machine and voice calls to phones. Transparent to both caller and receiver, the Model A-1 is compatible with fax machines, dial modems, and both touchtone and pulse-key telephone



systems. It can be used on 110 60 Hz or 220 50 Hz, and single-line or multi-line installations with or without an answering machine. Other features include a programmable ring count for no-answer default to the fax machine or modem device, unattended receive, an LED to indicate in-use condition of either port, and the ability to switch between voice and fax. ($159.95) High Tech Resources, 230 Main Street, Ellsworth, Maine 04605. (213)378-1641.



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Serial/Parallel Port
Clock/Calendar **$749**

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EGA Color Monitor	$385
EGA Card	$125

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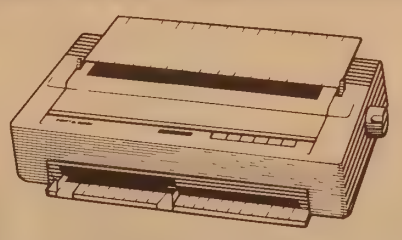

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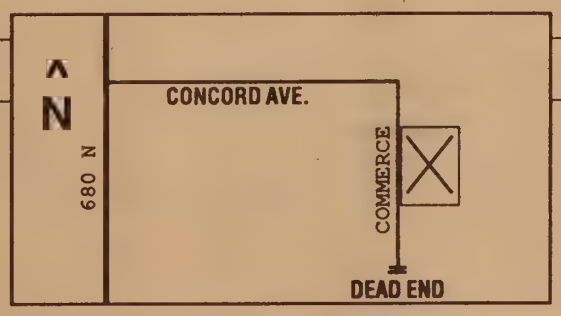

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HARDWARE

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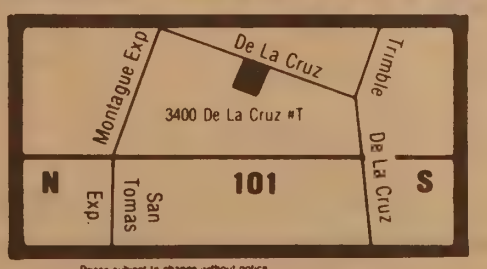

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Printer cable	5

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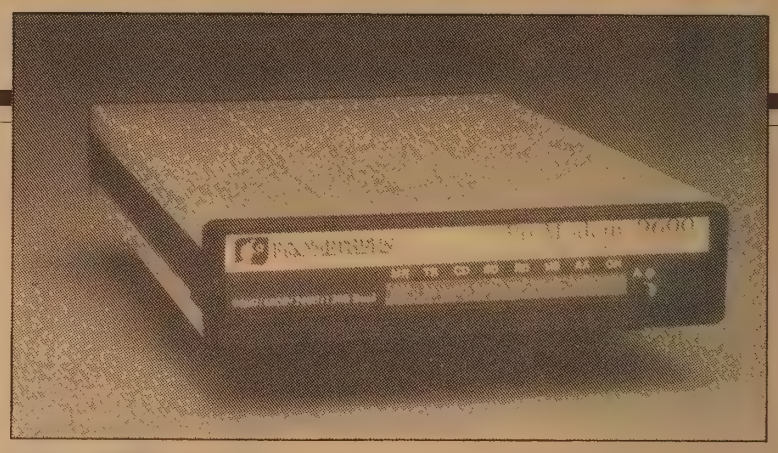
PC TELECOMMUNICATION BUYERS GUIDE

New Integrated Approach To Dial-up Security For Single-line Systems

The TraqNet 2001 provides a dial-up security system that brings "big system" access security technologies to single-line dial-up systems. Users can protect single-line systems using either call-back technology or secure call-in (with the company's InfoKey portable secure call-in device included with the system). Security applications for the TraqNet 2001 include: mainframe or mini-computer maintenance ports; LAN-to-LAN, PC-to-PC, or other host-to-host dial-up communications; and businesses with a single dial-in computer line. The TraqNet 2001 supports up to 256 users and is programmable using an ASCII terminal or a PC with LeeMah's Directory Editor and Upload/Download program. Lee Mah Data-Com Security Corporation, 3948 Trust Way, Hayward, CA 94545. (212)807-1400.



9600 BPS Modem From Prometheus

Prometheus Products has announced its new 9600 baud external modem, the ProModem 9600 Plus. Using MNP-5, the ProModem 9600 Plus ensures error-free communications and throughputs up to 19,200 baud. The 9600 Plus follows CCITT V.32 standards, allowing it to communicate with a variety of other V.32 compatible modems. This device has many advanced features that make it suitable for many different applications. A front panel answer/originate switch allows for simple transfer from voice to data calls. One-number call-back security prevents unauthorized access to a system. The 9600 Plus operates at 9600, 4800, 2400, and 1200 baud. Being CCITT V.32/V.22bis/V.22 and Bell 212A compatible means the 9600 Plus can communicate with 1200, 2400, or 9600 bps modems in the US or worldwide. ($995) Prometheus Products, Inc., 7225 SW Bonita Rd., Tigard, OR 97223. (503)624-0571.

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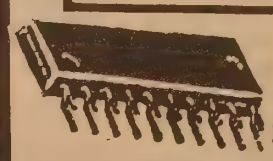

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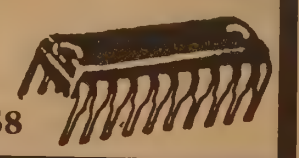

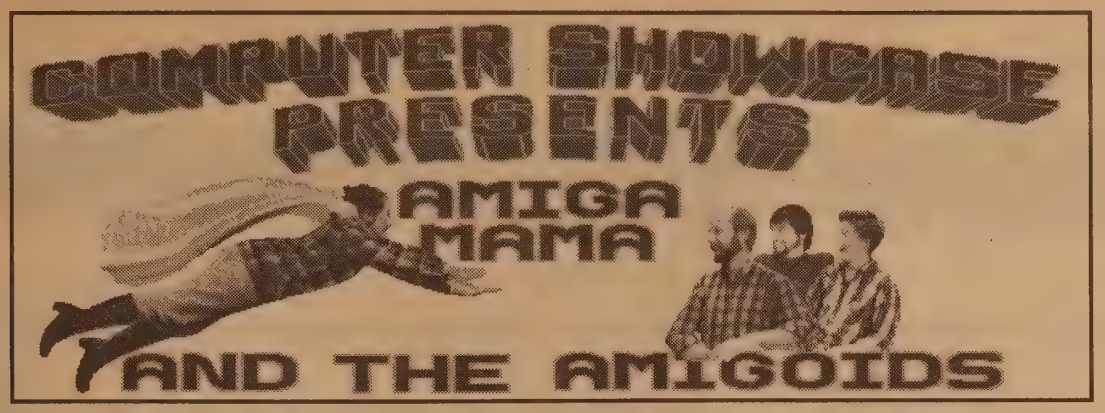

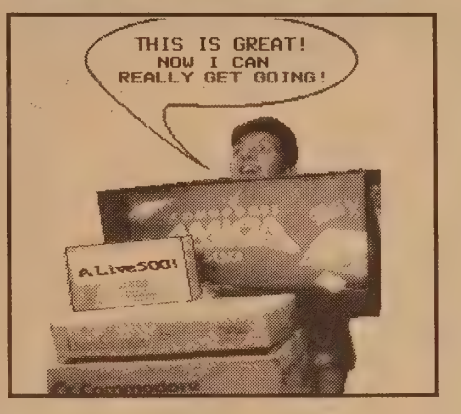

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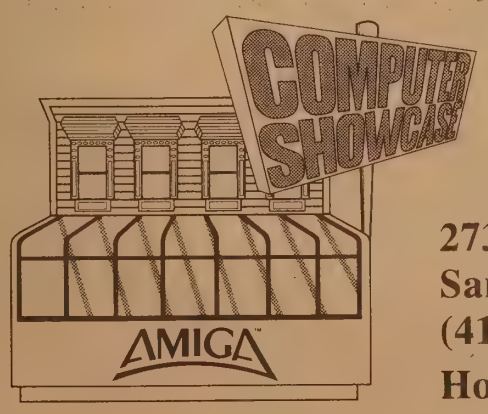

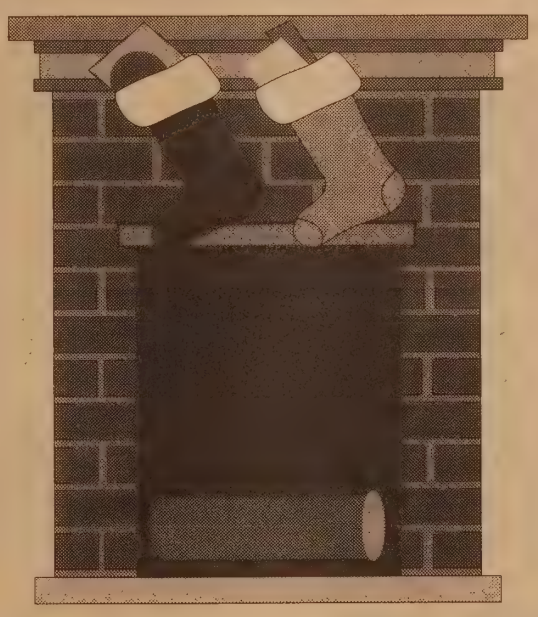

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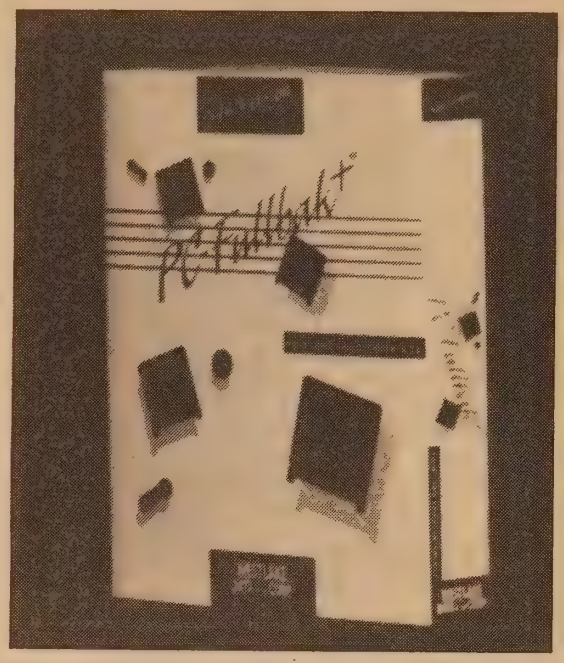
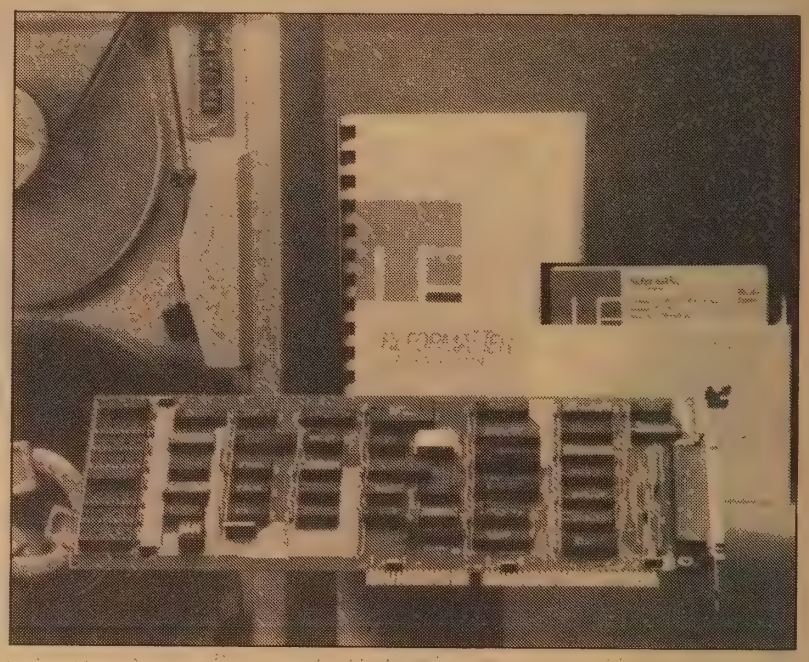


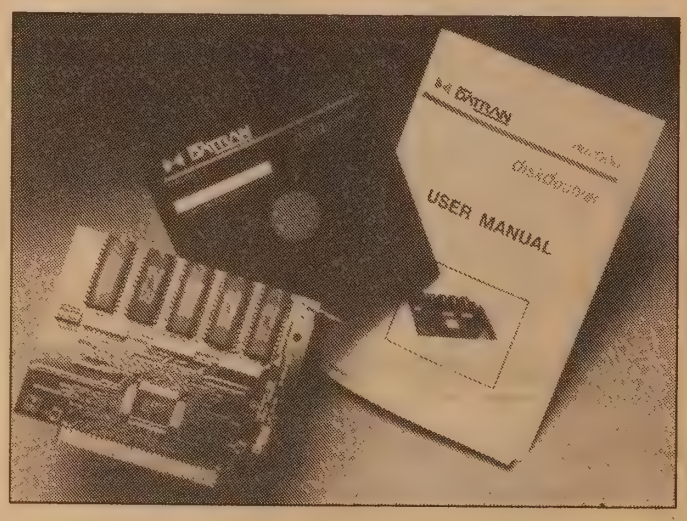
PC-Fullbak+ Adds Data Compression, Error Correction

Westlake Data Corporation has released *PC-Fullbak+*, the latest version of its award-winning backup product. The new version adds data compression and advanced error correction while retaining the speed and value that have made it a favorite. Features include script files, which let you perform repetitive backups without reselecting files, an historical log file to track your backups, and the easy, point-and-shoot interface. Westlake Data Corporation, PO 1711, Austin, TX 78767. (512)328-1041.

Reformatter Provides Mainframe To PC File Transfer

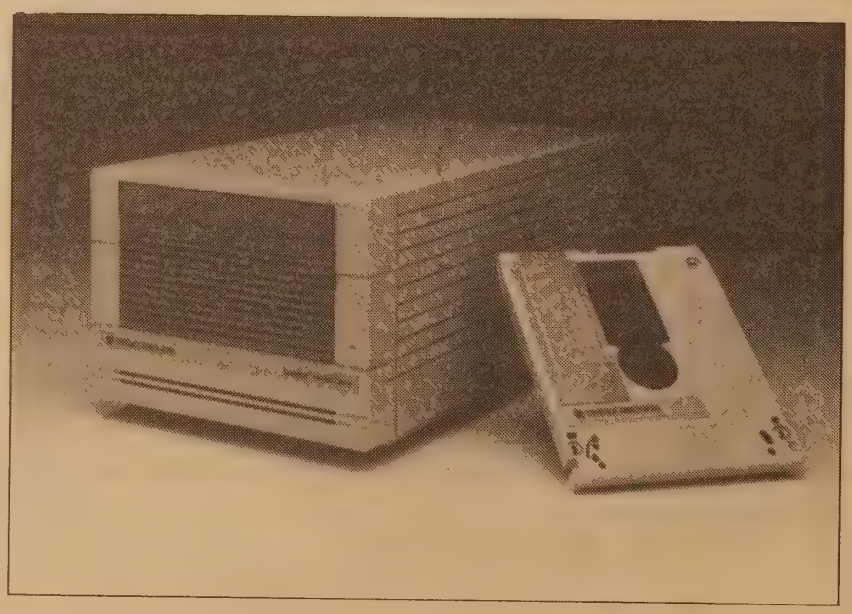


The Reformatter 9-Track Family is a group of high performance 9-track tape systems built to provide file and program transfer between mainframes and personal computers. Open reel 9-track tapes, the common medium of archival storage on most large computer systems, can be accessed from any system with the Reformatter. Each package contains a tape drive, controller card, and software for a variety of tape conversions, and a tape backup/restore program. Controllers are available for any IBM PC, PS/2, or compatible. Software runs under MS-DOS, XENIX, and UNIX. System prices range from $3000 to $10,000, depending on drive selected. MicroTech Conversion Systems, 525 Alma St., Palo Alto, CA 94301. (415)324-9114.



Another Device Doubles Your Storage Capability

The DiskDoubler II is a short card for all IBM-compatible computers that can increase the data capacity of any or all of the disk drives in a system for only $99. Featuring a surface-mount design for increased performance and lower cost, the DiskDoubler II automatically compresses data files by up to 50 percent each time they are saved to disk, and decompresses them when they are read off the disk. Using advanced data compression algorithms supported by a high-speed, proprietary chip, the DiskDoubler offloads the task of data compression from the system CPU, delivering completely transparent operation. It does not modify DOS disk or file structures in any way. Datran Corporation, 2505 Foothill Blvd., La Crescenta, CA 91214. (818)248-8788.



Storage Dimensions Offers Large, Fast, Optical Subsystems

Storage Dimensions has introduced a line of large, optical subsystems with average access times of 35 ms and an average data transfer rate of 10 million bits per second. The subsystems feature the Tahiti I magneto-optic drive from Maxoptix Corp. Called LaserStor Erasable Optical, the family supports 286/386 DOS, PS/2, Macintosh, and Novell NetWare environments. One and two drive external subsystems feature the SCSI interface for improved performance, expansibility, and compatibility with other subsystems. The LaserStor 1 Gb cartridge is the highest capacity available in 51/4 inch removable media. Also available is a 650 Mb cartridge which adheres to the International Standards Organization standard, thus enabling data to be exchanged with other manufacturers' drives. (>$7995) Storage Dimensions, A Maxtor Company, 2145 Hamilton Ave., San Jose, CA 95125, (408)879-0300.

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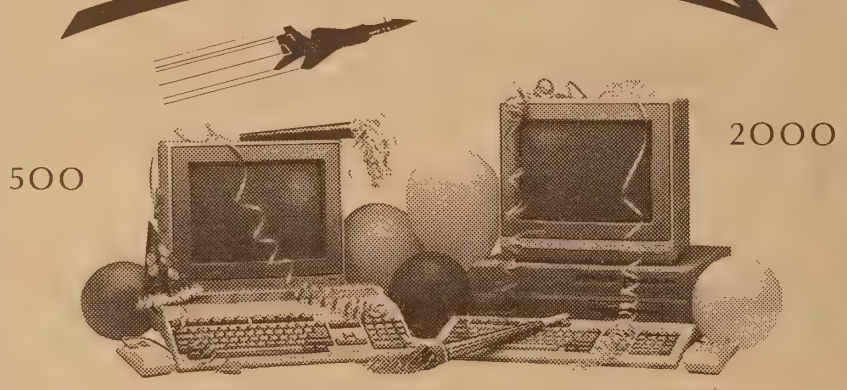

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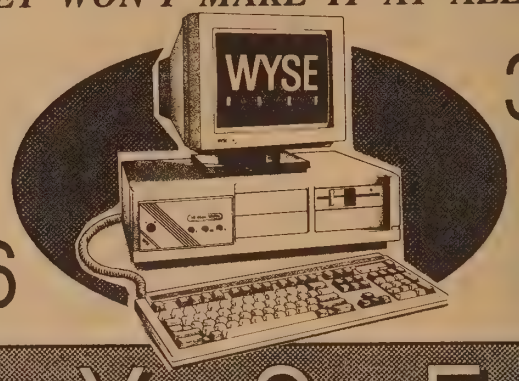

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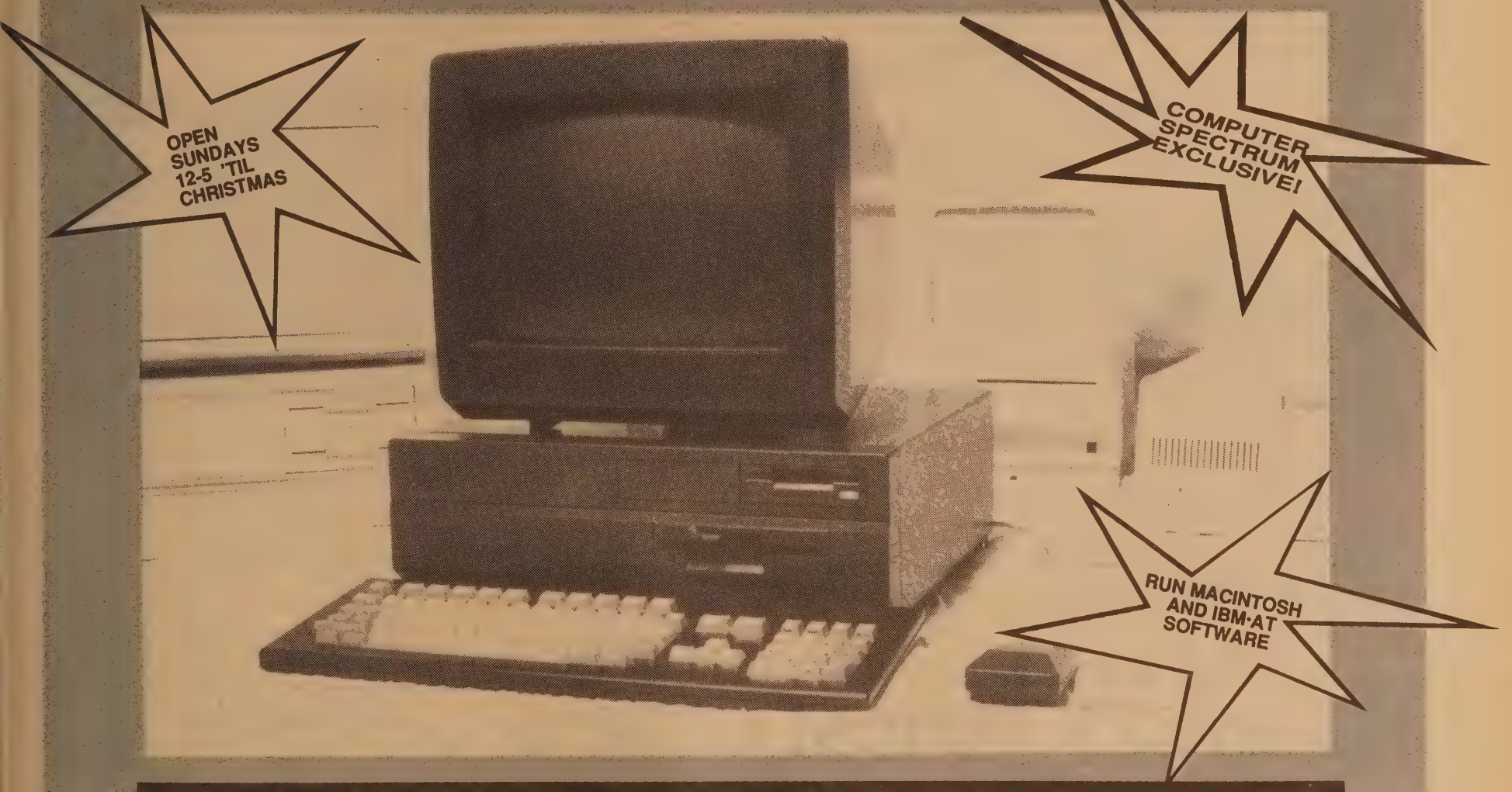

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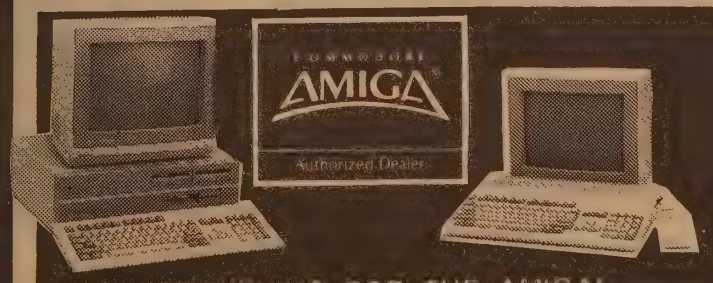

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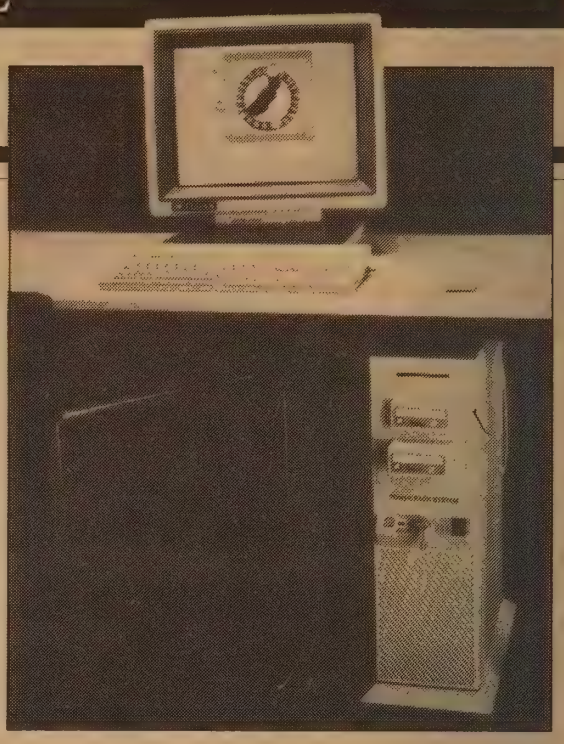

Portable CD-ROM From NEC

NEC Home Electronics has introduced the Intersect CDR-35 reader, one of the first fullfunction CD-ROM readers that can be operated as a portable unit. The Intersect is a compact, affordable CD-ROM solution for high-volume text and high-quality image access and retrieval. The CDR-35 is small enough to be carried in a briefcase or laptop computer carrying case and it can operate from an AC adapter or an optional battery pack. In its portable mode with the battery pack, the Intersect reader weighs only 3 lbs. Interface kits are available to connect the Intersect CDR-35 reader to most major computer platforms including the XT/AT, PS/2, Macintosh, and NEC's MultiSpeed, ProSpeed 286, ProSpeed 386, and UltraLite portable computers. ($599; 199 or 99 for adapter) NEC Home Electronics, 1255 Michael Dr., Wood Dale, IL 60191. (312)860-9500.

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If you would like to store from 42 to 170 Mb of data in a small, safe, and transportable box, you may be interested in the Disk Pack from IEF. One Disk Pack does the job of one hundred diskettes, ten times faster, and with less trouble. Access time is 18 ms (12 with optional RAM cache). Units weigh only 2.4 lbs and are shock-resistant to 10 g operating and 50 g non-operating. Disk Packs plug into IEF's Tower Pack Systems for DOS or Macintosh machines. Tower Macintosh II and Tower 386 are available in various configurations offering one or two 51/4 inch or 31/2 inch, 360 K or 1.2 Mb, 760 K or 1.44 Mb diskette drives. Systems come complete with one or two integrated Disk Packs and a control panel with lock, switches, and indicators. French Technology Press Office, 401 N. Michigan Ave., Suite 601, Chicago, IL 60611. (312)222-1235.

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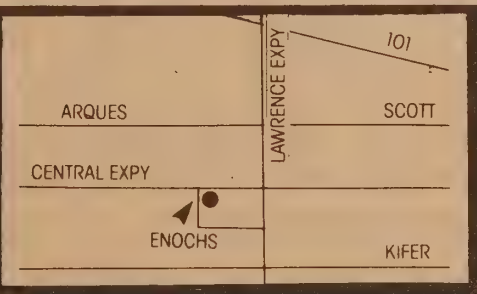

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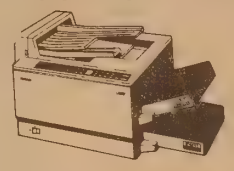

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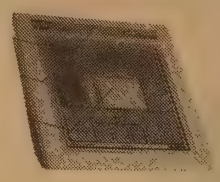

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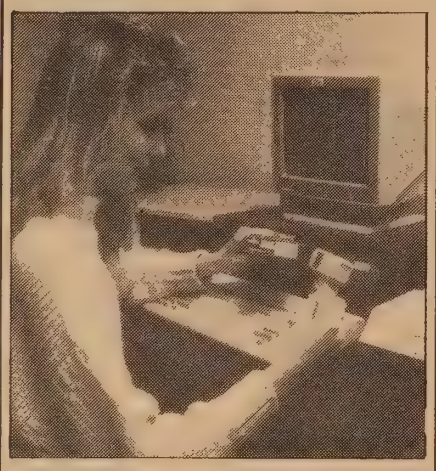

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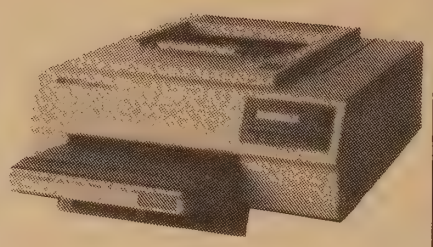

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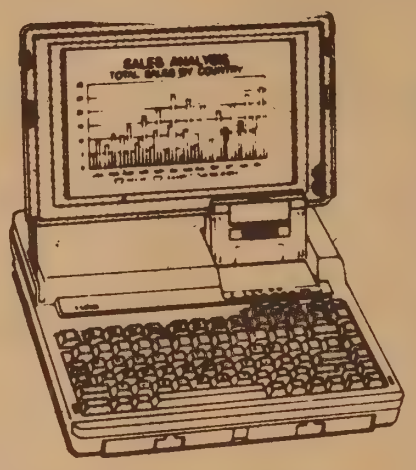

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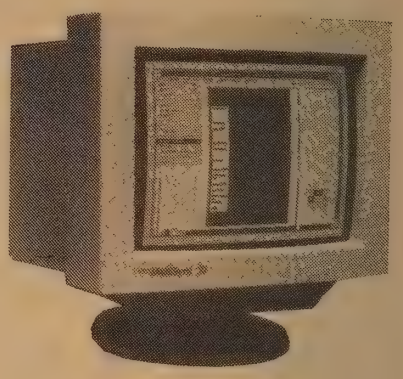

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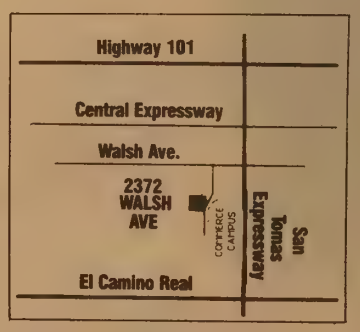

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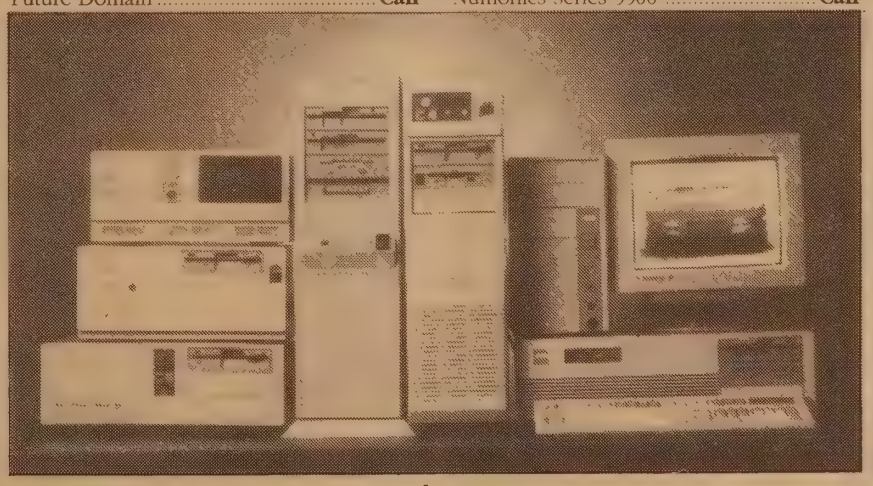

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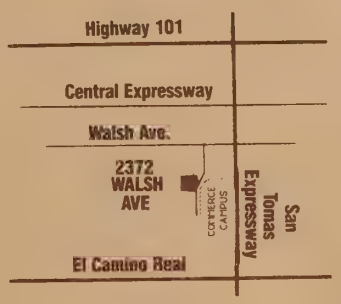

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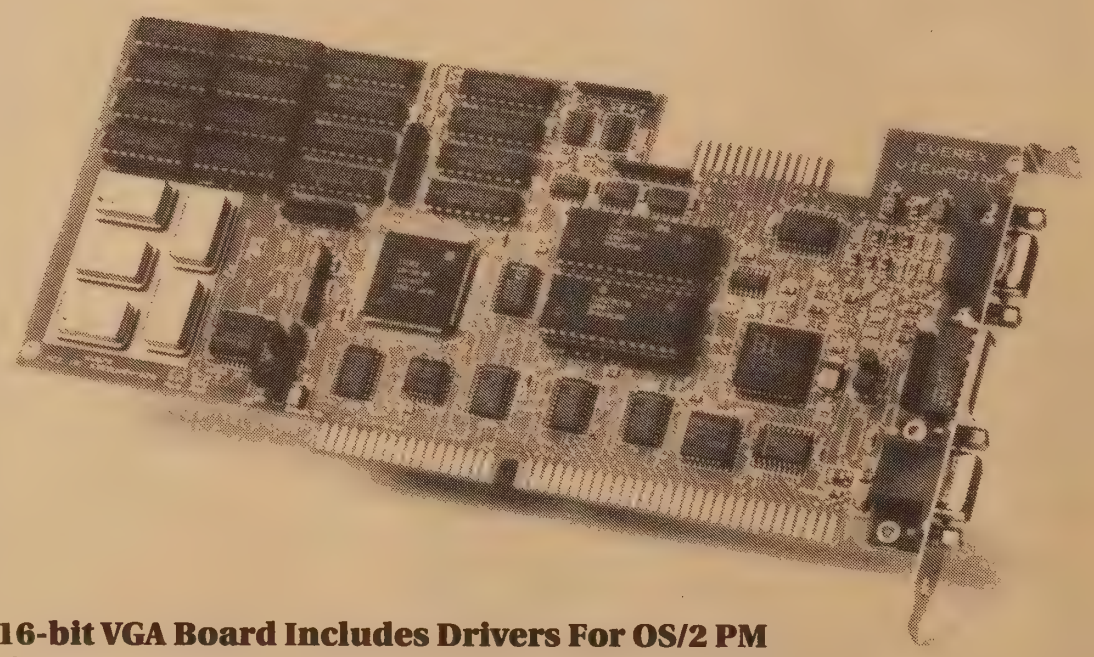

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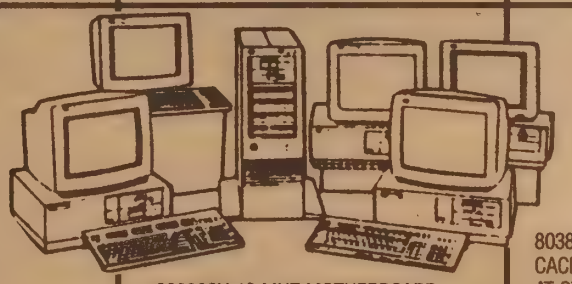

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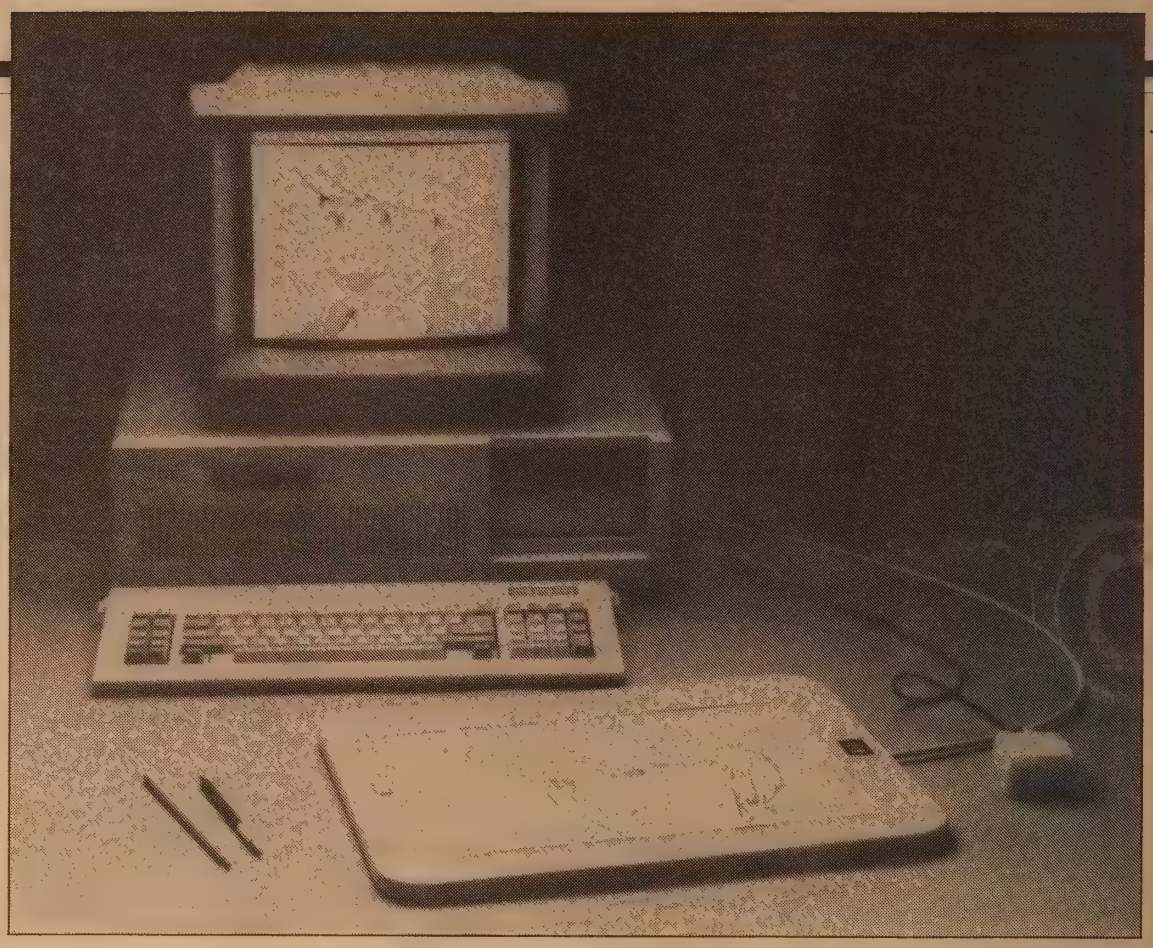
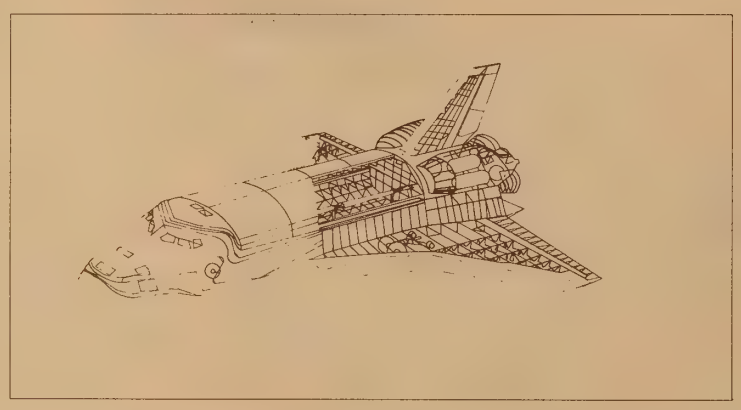
Easyl PC Emulates Mouse, Provides Draw, Trace Capabilities

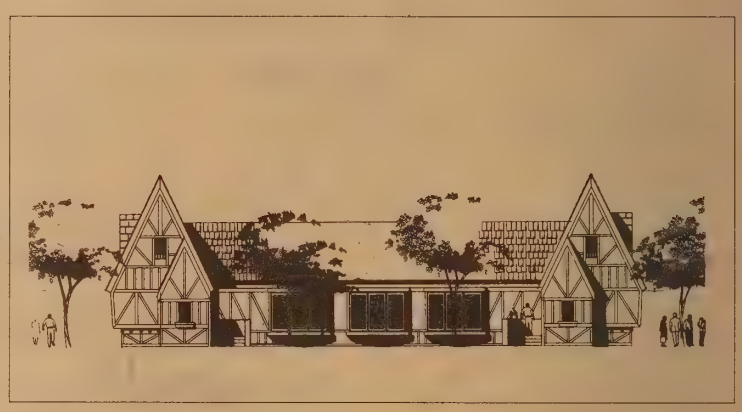
Easyl PC is a pressure-sensitive tablet which allows one to draw or trace directly into the computer with an ordinary pencil or pen and paper. Templates can also be created to control applications software by touch. The Easyl PC surface is composed of a durable yet pliable plastic compound material overlaying a grid of 1024 x 1024 contact points. When point pressure is applied to the surface, Easyl PC will send x,y coordinates at up to 200 pairs per second in a variety of data formulas. The device emulates Summagraphics 961 and Bit Pad 1 standards, allowing Easyl PC to be used with a wide variety of application packages which support these standards. Typical application packages include *PC Paintbrush* and *Dr. Halo*. Easyl PC Windows and GEM drivers allow the tablet to be used with any Windows or GEM applications. Thus, as a desktop publishing tool, users can import Easyl images from various graphics packages into *PageMaker* or *Ventura Publisher* from the Easyl tablet by creating templates for those packages. ($495) Inforite Corporation, 1670 South Amphlett Blvd., Suite 201, San Mateo, CA 94402. (415)571-8766.





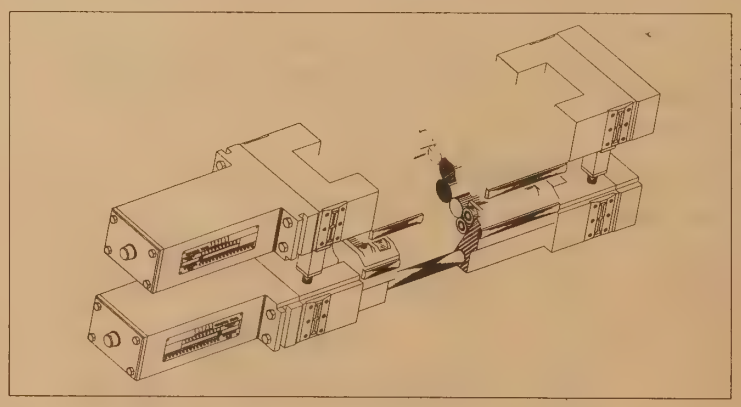
Hewlett-Packard Plotter

Okidata 393C with EOgraph Plus, 360 x 360



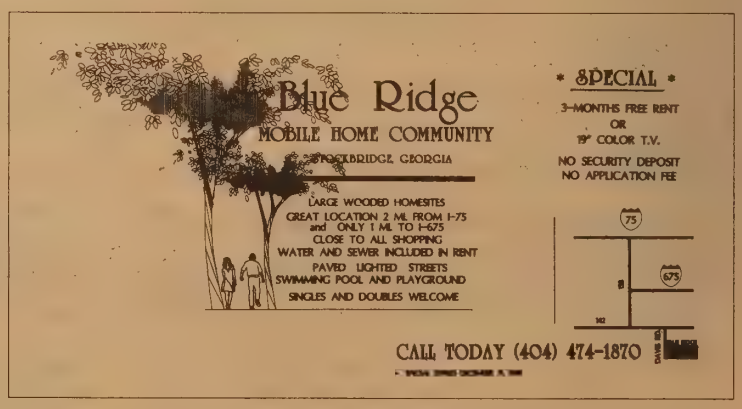
EOgraph Plus Board Turns Your Printer Into A Plotter

Engineers, designers, and architects can now use their printers as plotters with EOgraph Plus, a unique board that turns your dot matrix, ink jet, laser, or thermal printer into a high-quality graphics machine. With EOgraph Plus, you can also queue today's drawings and plot them tonight, or plot the last drawing while working on your next one. With output better than that of most plotters, the EOgraph Plus gives you instant control over colors and line weights. Fine lines can be drawn at a width of a single dot, the heaviest at up to 1.2 mm or more. Hewlett-Packard HP-GL and Houston Instruments DM/PL are the most universally accepted plotter languages. EOgraph Plus emulates both so you can expect your EOgraph to take advantage of almost any software program ever written for PCs. Eotron Corp., 121 Westpark Rd., Dayton, OH 45459. 1-800-548-5780.



Hewlett-Packard Paint Jet with EOgraph Plus 180 x 180

Okidata 393C with EOgraph Plus 360 x 360



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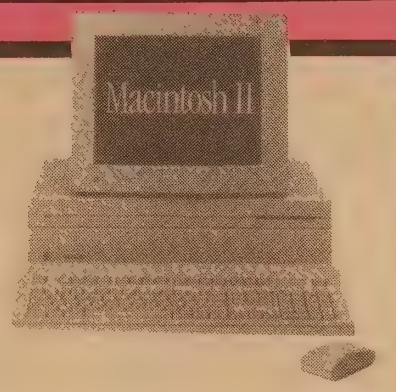

Mac IIx 1 Drive
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Mac II
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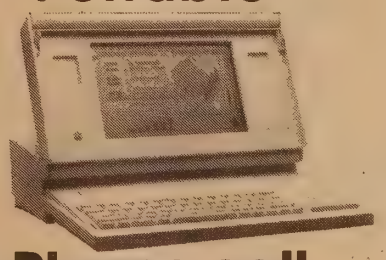
Mac Portable



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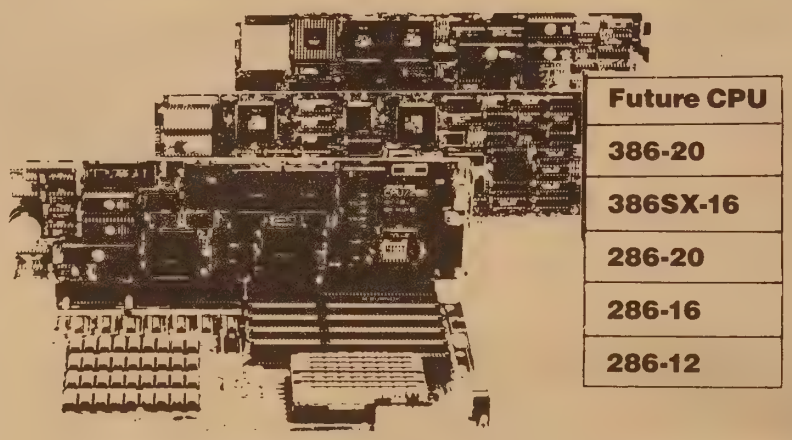
Motherboards With a Future Privilege Series Open Architecture



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386SX-16
286-20
286-16
286-12

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- Subject to stock on hand
- Prices are cash only. Add 4% for American Express, Visa, MC

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ORCHID 386-SX16

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- Seagate ST-251-1, 40 MB, 28 ms, Hard Drive
- 1.2 MB Floppy Drive
- 1:1 Interleave Controller
- VGA Monitor-640x480x256 Color
- Designer 800 VGA Card
- 101 Keyboard-Maxiswitch

$1895

ORCHID 386-20C

- 0 Wait State, 1 Meg RAM-32K Cache
- VGA Monitor-640x480x256 Color
- Mitsubishi MR535, 65 MB, 28 ms, Hard Drive
- 1.2 MB Floppy Drive
- 1:1 Interleave Controller
- Designer 800 VGA Card
- 1 Serial, 1 Parallel, 1 Game
- 101 Keyboard-Maxiswitch

$2395

ORCHID 386-25C

- 0 Wait State, 1 Meg RAM-32K Cache
- VGA Monitor-640x480x256 Color
- Mitsubishi MR535, 65 MB, 28 ms, Hard Drive
- 1.2 Meg Floppy Drive
- 1:1 Interleave Controller
- Designer 800 VGA Card
- 1 Serial, 1 Parallel, 1 Game
- 101 Keyboard-Maxiswitch

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- Landmark 25.4-NORTON SI 22.0
- 1.2 meg floppy drive
- ST-25 1-40 MB, 28ms Hard Drive
- 1:1 Interleave Controller
- VGA Monitor-640x480x256 Color
- Designer 800 VGA Card
- 101 Keyboard-Maxiswitch
- MS DOS 3.3. or 4.01

$1695

Mylex 386-20

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- 1.2 meg floppy drive
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- 101 Keyboard-Maxiswitch
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- Orchid Pro Designer VGA Card
- 1 Serial, 1 Parallel, 1 Game
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Micropolis

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WD1006-MM2	119
WD 7000 FAASST	399

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Video 7 VRAM	499

MYLEX MOTHERBOARDS

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MWS 386-20-0K	975
MWS386-25 0K	1359
Multi DOS I/0 Card	495

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KX-1191	279
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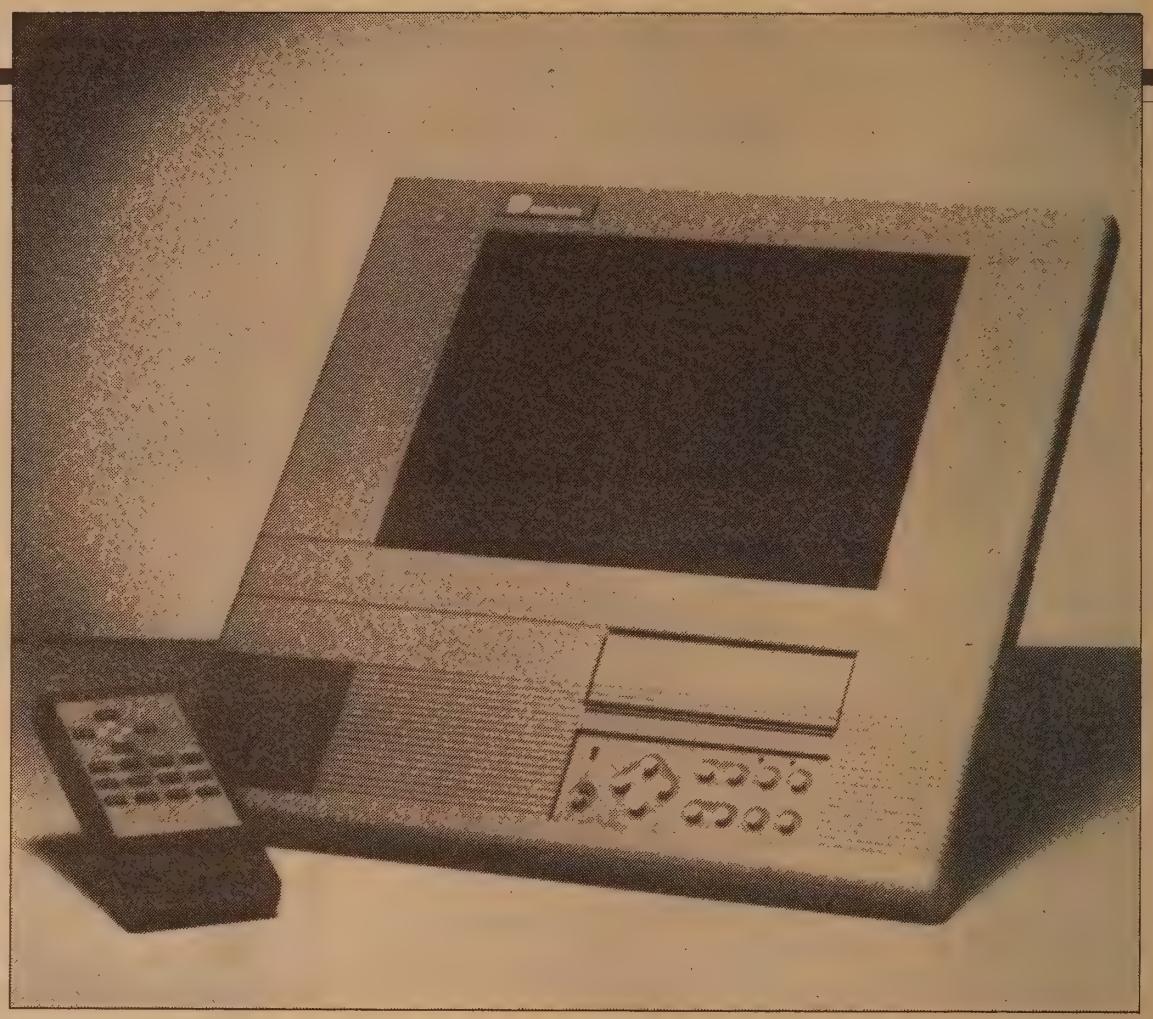
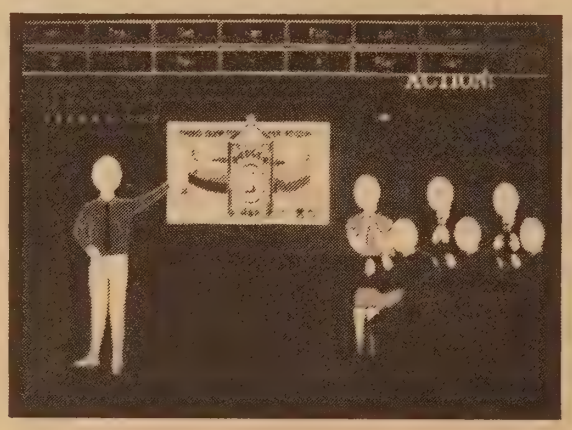
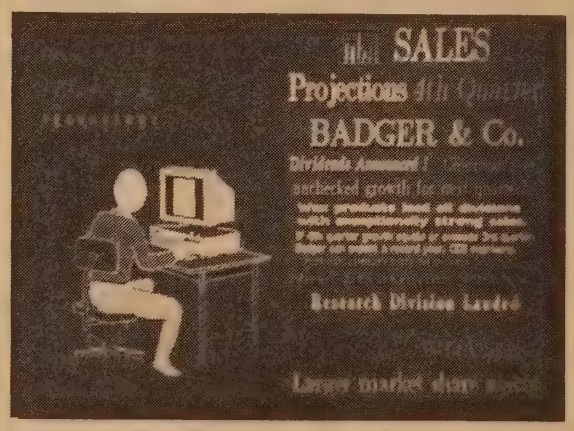
The MagniView 480 is an easy-to-use liquid crystal display panel allowing crisp, vivid color projection of high-resolution VGA computer data. The MagniView functions as an electronic transparency, allowing monitor data to be projected onto any large screen. Engineered to provide easy computer to computer mobility, it is compatible with the PS/2 as well as the PC/XT/AT and 100 percent compatibles; all major video standards including VGA, EGA, and CGA; all Apple Macintosh computers including the Mac II; and AT&T/Olivetti computers. Ideal for use in sales and financial presentations, educational and training programs, computer instruction, and other applications, the MagniView 480 can project up to 16 shades of color simultaneously. Designed to allow quick, simple creation of effective presentation material, the MagniView 480 includes IBM-compatible *Presentation Partner* software. This menu-driven application captures screen displays from any application software and enables users to manipulate files, arrange information, create images, and make unique "slide show" presentations. Dukane Corporation, 2900 Dukane Drive, St. Charles, IL 60174. (312)584-2300.

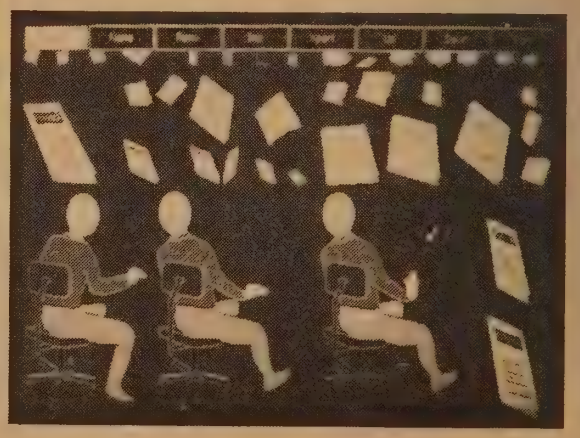




IMPEL Makes Moving Pictures On The PC

IMPEL is a new application that makes moving pictures on the PC/XT/AT, PS/2, and compatible computers. It can be used for animated business presentations, product demonstrations, computer-based training, and many other applications involving moving displays of personal computer graphics and text. The *IMPEL* animation system uses mouse-driven menus and intuitive pick and place graphic positioning. Features include a drawing package, proportionally spaced text fonts, film editing and splicing, depth, simultaneous movement of different pictures, and a film compiler to speed up finished films. Pictures can be created and revised with *IMPEL*'s own drawing facility, or can be imported in a variety of picture file formats such as PC Paintbrush, .PCX, Deluxe Paint .LBM, and Dr. Halo.CUT. ($295) Eastridge Technology, 37 Murray St., New York, NY 10007. (212)267-7980.





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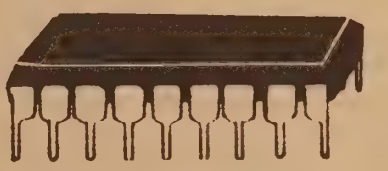

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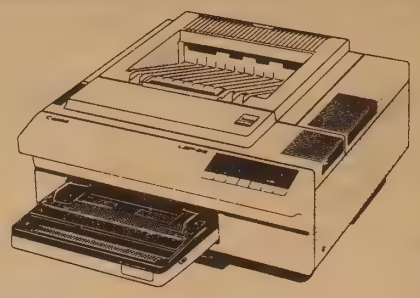

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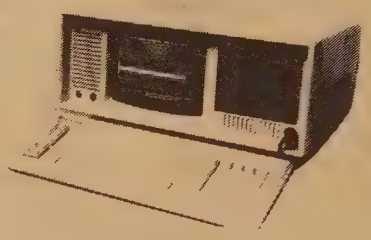

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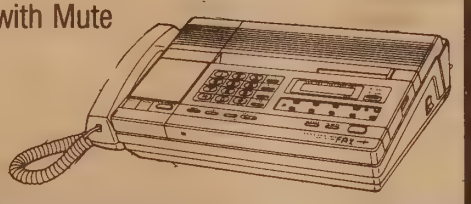

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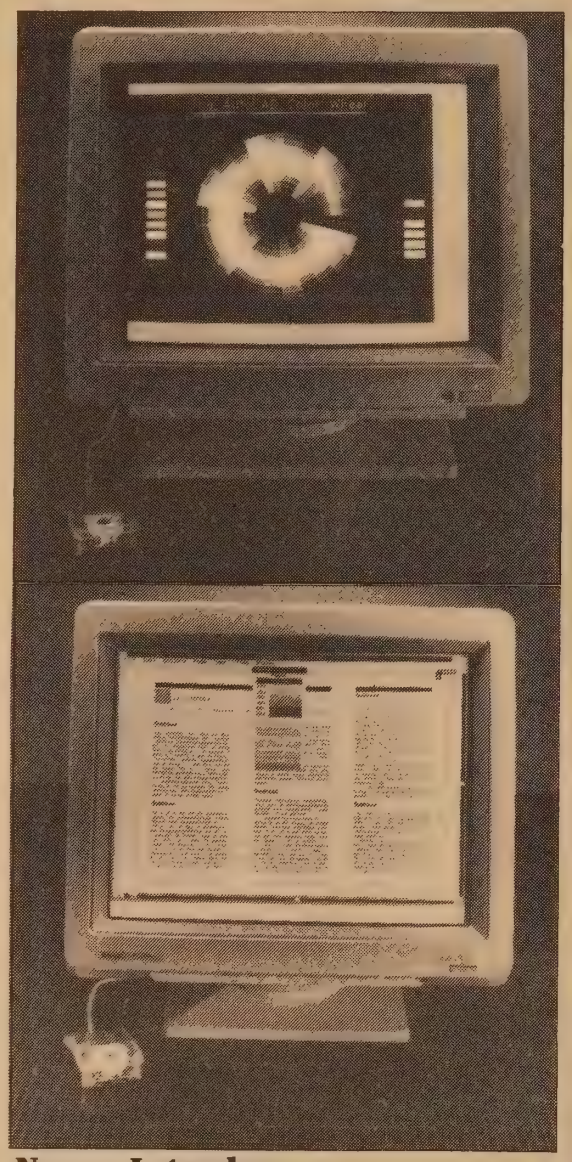
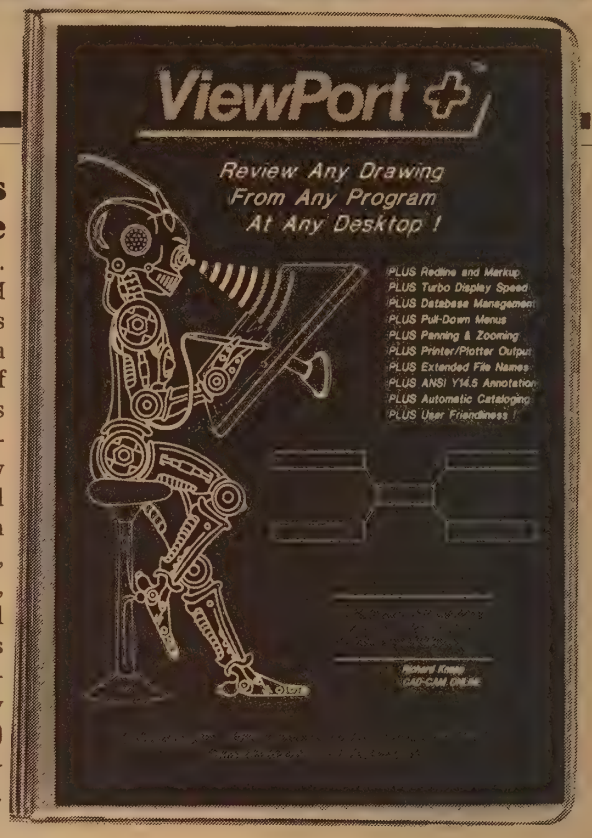


Nanao Introduces Two DTP Monitors

Nanao has introduced two new monitors specifically for DTP, CAD/CAM, and other applications that require large, high-resolution displays. The FlexScan Model 6300 is a 21-inch grey-scale multiscanning monitor that displays side-by-side paper-white images of two complete pages in super-high resolutions up to 1664 x 1200—a resolution three times better than the VGA standard of IBM PS/2, PC/XT/AT, and compatible microcomputers. The second monitor, the FlexScan Model 9400, is a 20-inch multiscanning color monitor that displays resolutions up to 1280 x 1024—higher than extended VGA, insuring that the monitor will be compatible with future evolving display standards. The 9400 also supports the new 24-bit "true color" graphics display standard, which offers users a palette of 16.7 million colors and resolutions as high as 1024 x 768 on the Apple Macintosh II. Both monitors feature multiscanning capabilities that ensure the superior resolutions and the compatibility with IBM and Apple microcomputers. ($1989/3799) Nanao USA Corporation, 23510 Telo Ave., Suite 5, Torrance, CA 90505.

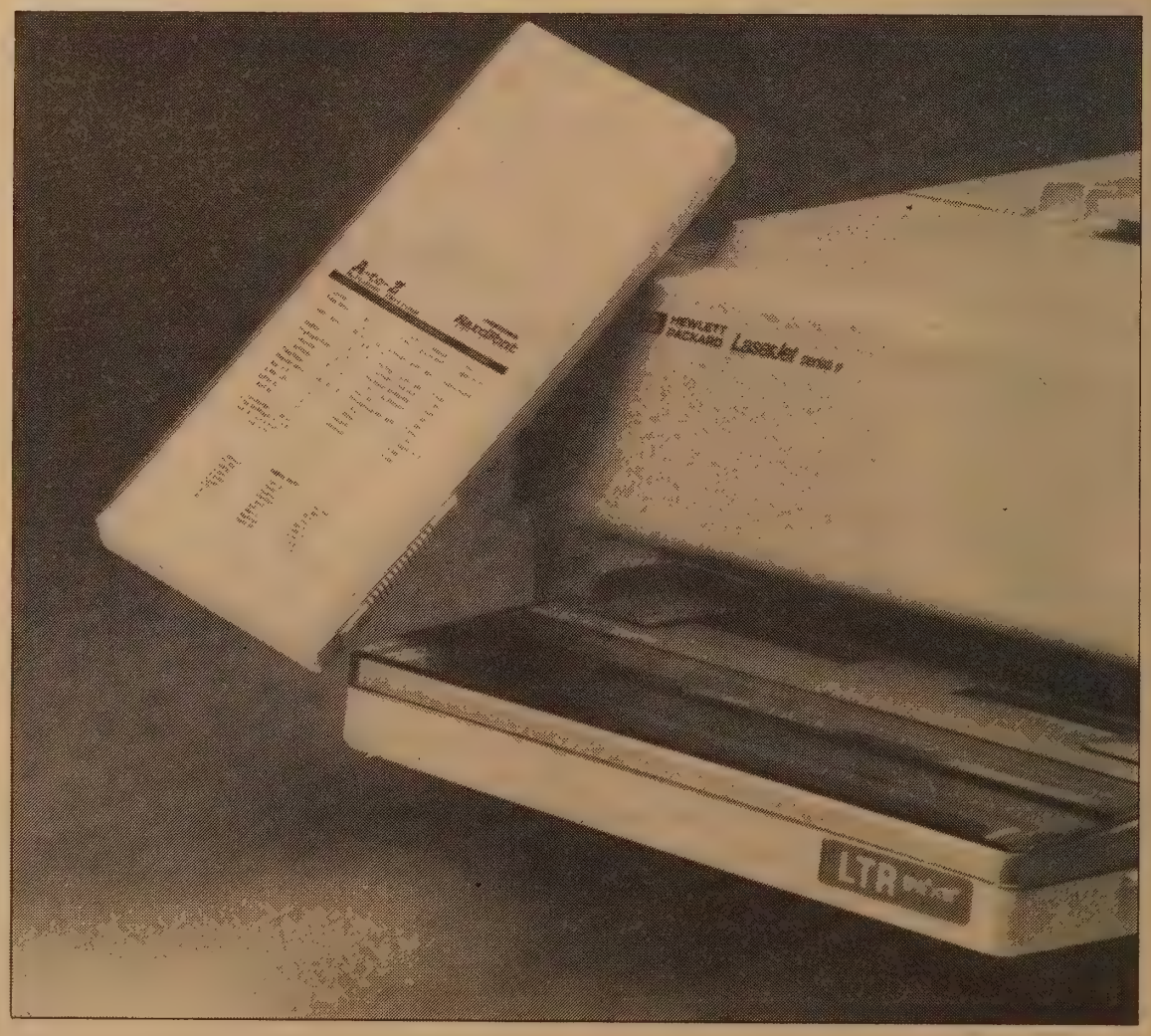
ViewPort+ Quickly Opens Any CAD/CAM File

ViewPort+ is new software from CADMAN Corp. that displays drawings created by CAD/CAM application programs approximately 10 times faster than the originating software. Typically a full-screen drawing consisting of thousands of vectors can be displayed by *ViewPort+* in less than two seconds on an AT-class PC. The application can be used by shop floor personnel to view assembly drawing, and by engineering personnel to check drawings. With *ViewPort+* users can zoom in and pan around the displayed drawing, create notes and comments, make hard copies, and plot them on large format plotters. No actual part of the drawing may be altered. To generate its extremely fast view-only display files, *ViewPort+* translates each HPGL plotfile into a highly efficient, compressed binary file format. ($595) CADMAN, 19700 S. Vermont Ave., #100, Torrance, CA 90502. (213)515-1289.



Everex Provides Fonts From A-To-Z

A-to-Z HardFont Cartridge is a comprehensive multifont cartridge that contains the functional equivalents of all 231 fonts in Hewlett-Packard's set of font cartridges. Fonts include Courier, Gothic, and Prestige Elite, as well as fonts based on Linotype's Times Roman and Helvetica typographic masters. The A-to-Z is fully compatible with the entire family of H-P LaserJet printers including the LaserJet IID. The fonts are accessed directly by the printer without downloading, so the printer's memory is used for saving documents rather than font outlines. ($695) Everex, 48431 Milmont Drive., Fremont, CA 94538. (415)498-1111.



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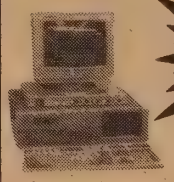

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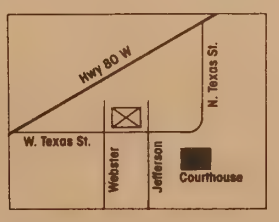

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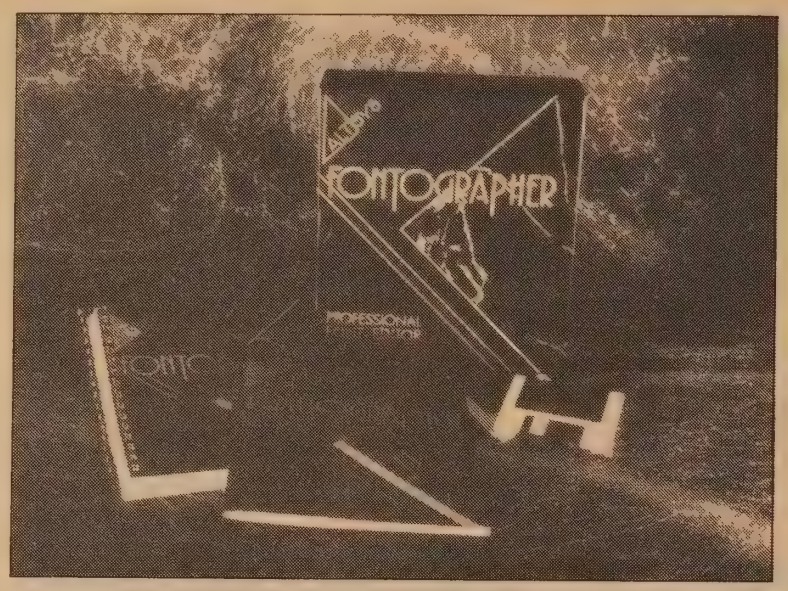
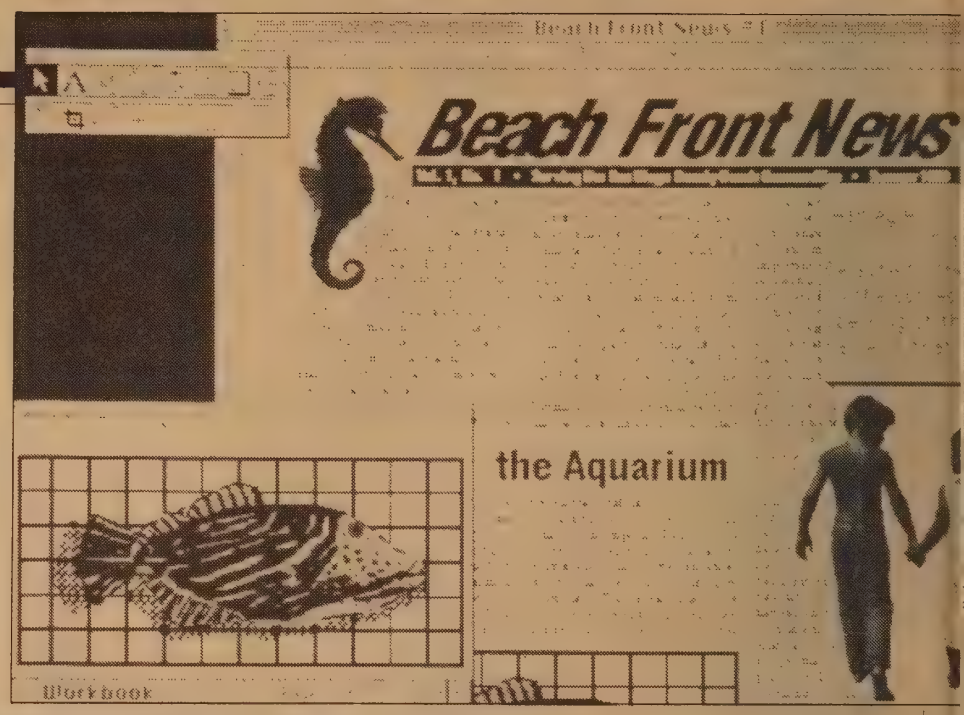


Fontographer Upgrade Generates PostScript "Hints"

Fontographer is a specialized graphics editor designed to simplify the creation and use of high-quality fonts, logos, and other intricate PostScript artwork on the Macintosh. The new version 3.0 introduces such capabilities as automatic generation of PostScript and bitmap "hints," auto-trace of scanned characters, and integrated editing of bitmap fonts, in addition to upgrading specific features of the user interface. A new rewritten User's Guide and Tutorial offer the range of users greater support and detail in the design and development of professional quality PostScript fonts and logos. Copy protection has been dropped for US and Canadian users. ($495) Altsys Corporation, 720 Avenue F, Suite 109, Plano, TX 75074. (214)424-4888.



Makers Of SuperPaint Produce New Publishing Application

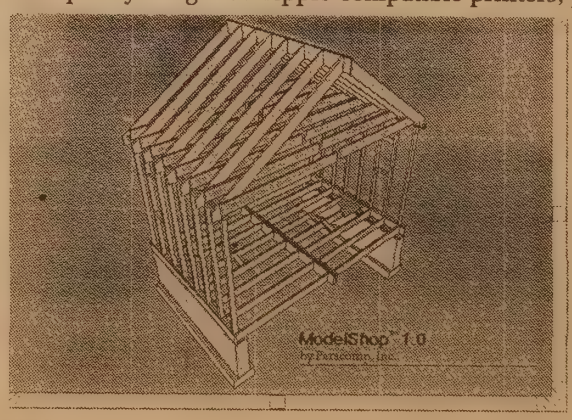
Silicon Beach Software, makers of the renowned *SuperPaint* object-oriented and bit-map graphics application, has recently introduced an entry-level desktop publishing application that supports full-color PICT and TIFF graphics. By using an advanced interface technology known as "proxies," *Personal Press* provides constant, interactive graphical feedback to the user to aid in the design and layout process. Nearly every significant dialogue box, from importing text and graphics to aligning objects on the page, provides a graphical proxy that lets the user know exactly what is going to happen to the document before hitting the "OK" button. The most powerful use of proxies in the program is in the AutoCreate feature. With AutoCreate, the *Personal Press* user can select one of the predesigned templates, see the entire page layout as a thumbnail, place text and graphics—previewing each along the way and even cropping the graphics before placing them—before ever actually opening the document. The user can easily expand the power of AutoCreate by adding his own templates by simply dragging files into a folder. *Personal Press* also supports user-definable spot colors and spot color separation, image processing controls for gray-scale images, custom styles, and search-and-replace on text attributes. ($299) 9770 Carroll Center Rd., Ste. J, San Diego, CA 92126. (619)695-6956.

MegaGraphics Releases Large Monochrome Monitor

The MegaScreen Rival System includes 19-inch monitor, one-bit interface card, tilt/swivel stand, and all necessary cabling. It is compatible with the SE, SE/30, and entire Mac II family. A slightly more expensive version is available for the Mac Plus. The new large screen system design resolves two ergonomic issues: screen flicker elimination and flexibility of monitor viewing angle. The display is completely flicker-free, due to a screen refresh rate of 75 Hz, a significant improvement over most displays. An especially flexible tilt/swivel stand is included with the monitor at no extra charge. The MegaScreen Rival supports a 1024 x 826 screen resolution, with 75 dots per inch. MegaScreen Rival systems for the SE and SE/30 allow continued use of the internal Macintosh 9-inch monochrome display. The two displays act as single, contiguous workspace, as cursor and windows may be moved smoothly from one area to the next. ($1698) MegaGraphics Inc., 439 Calle San Pablo, Camarillo, CA 93010. (805)484-3799.

ModelShop 3D Application For Architects, Designers

ModelShop is a three-dimensional architectural modeling software application for the Macintosh. It is a fast 3D surface modeler that can quickly create accurate models and generate virtually any user-defined perspective. The application allows the designer to employ the computer as a sketch medium. It combines the representational power of modeling with the ease of sketching. Traditionally, massing studies have demanded time-consuming physical models. *ModelShop* users not only save time, but can also produce presentation-quality images on Apple-compatible printers, plotters, color printers, and slide recorders. The features include a broad range of graphic primitives, flexibility in manipulating and viewing objects, and the ability to exchange data with other graphics software in PICT 1 or PICT 2 formats. ($595) Paracomp Inc., 123 Townsend, Suite 310, San Francisco, CA 94107. (415)543-3848.



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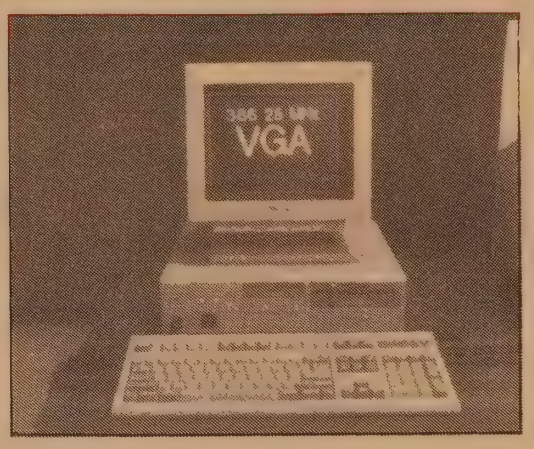

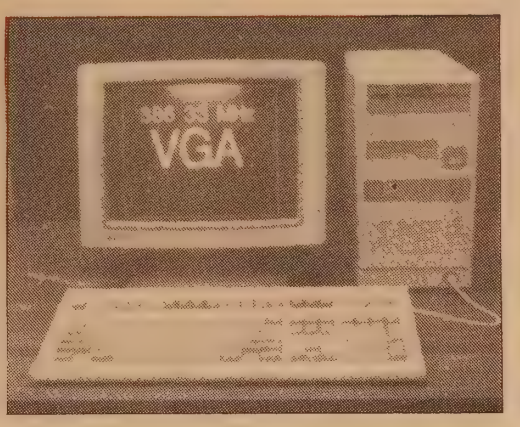

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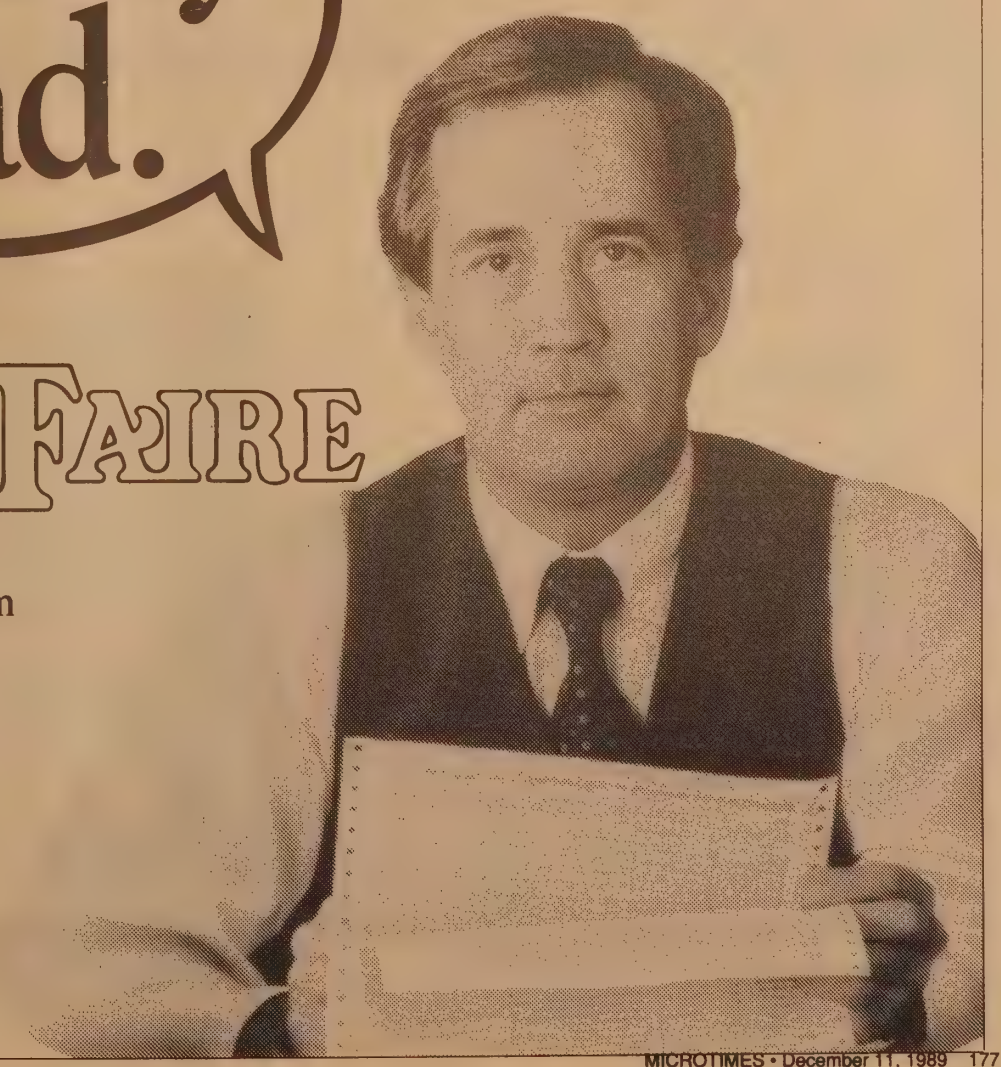

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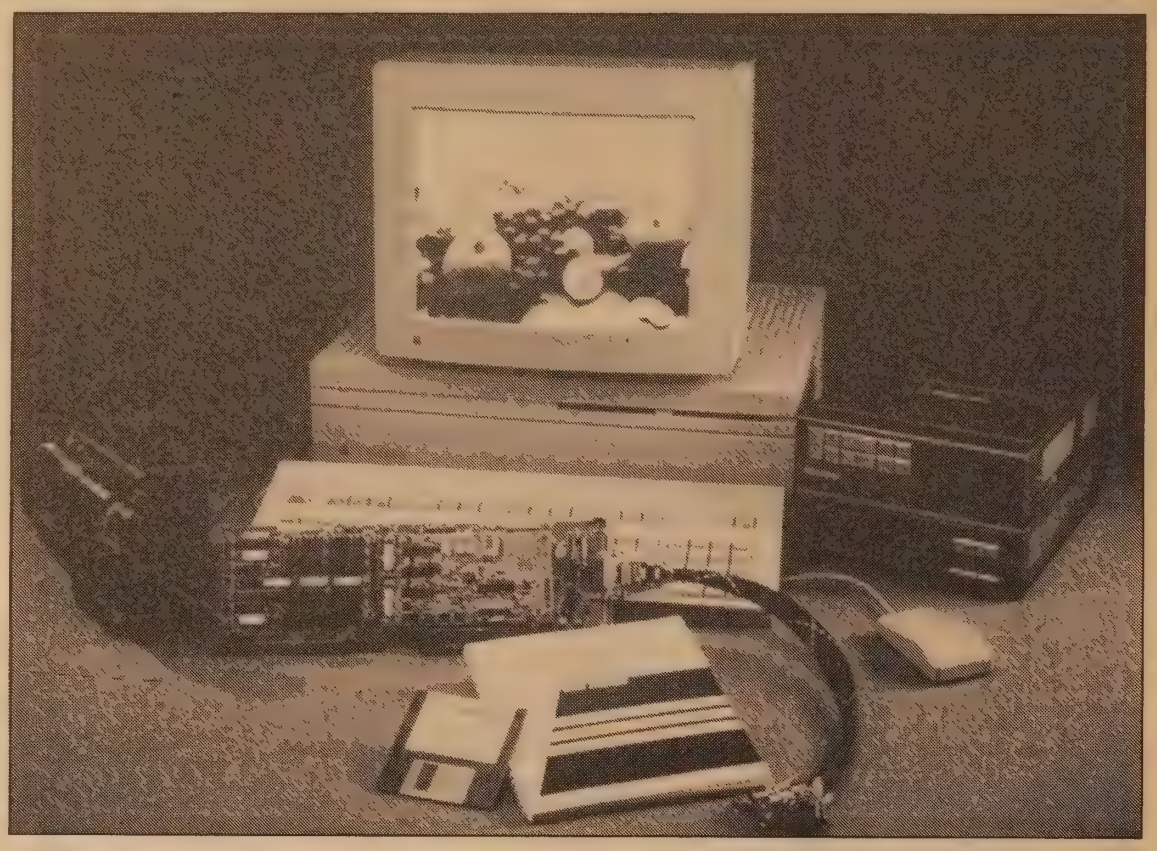
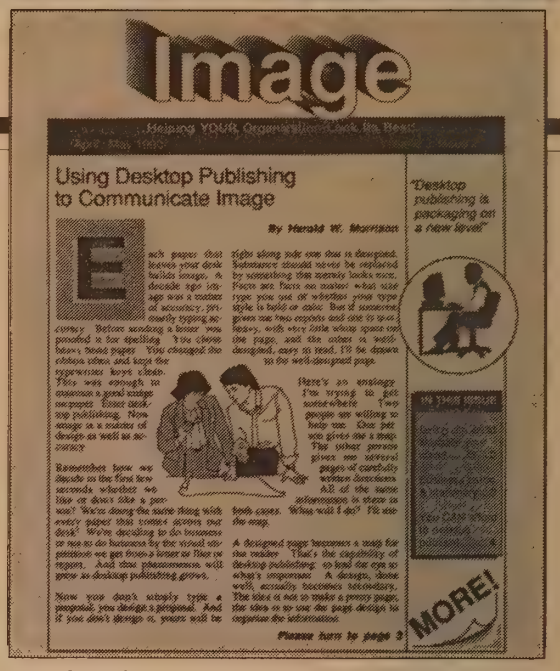


ColorCapture Board Upgraded To 32-Bit Color QuickDraw

Data Translation has upgraded its ColorCapture video board to support Apple's 32-bit QuickDraw. The board allows real-time video frame grabs, output to videotape, and true-color display in 32,000 colors with Macintosh II, IIx, and IIcx computers. ColorCapture captures 640 x 480 square-pixel images and displays them with up to 32,768 colors. The display produced is high-definition with continuous real-life color tones. ColorCapture also doubles as a 16-bit display and allows video graphics to be output as both RGB and NTSC composite video. The board genlocks to the incoming video signal. ($2995) Data Translation, 100 Locke Drive, Marlboro, MA 01752-1192. (508)481-8620.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Spectrum/24 From SuperMac Provides 32-bit Color

The SuperMac Spectrum/24 is a true color graphics card for the Macintosh II family that fully supports Apple's 32-bit QuickDraw. Spectrum/24 can display up to 1024 x 768 pixels in any of 16.8 million colors. With this powerful color display capability, creation and incorporation of lifelike images into desktop publishing documents, desktop color pre-press, and professional-quality image processing are now a reality. The advanced proprietary ASICs incorporated into Spectrum/24 provide a reliable, standard-sized NuBus card with advanced capabilities, like hardware pan and zoom. The Virtual Desktop incorporated into Spectrum/24 and multiple-monitor support mean that large screen true color computing is a reality—even with the AppleColor 13 inch monitor. For video production work, Spectrum/24 can convert data to NTSC RGB output compatible with industry-standard video equipment such as projection systems and video tape recorders. SuperMac Technology, 485 Portreo Ave., Sunnyvale, CA 94086. (408)245-2202.

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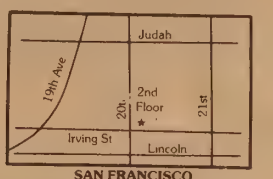

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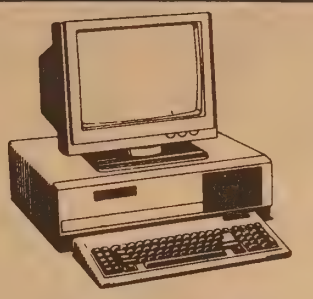

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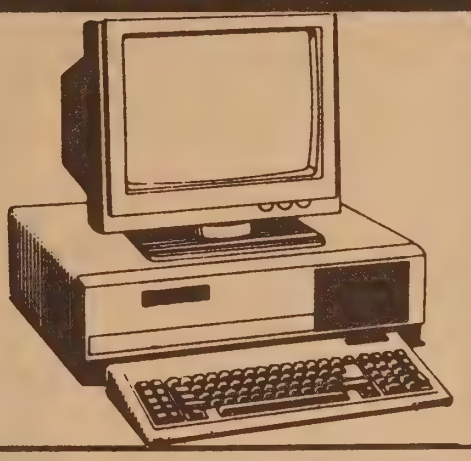

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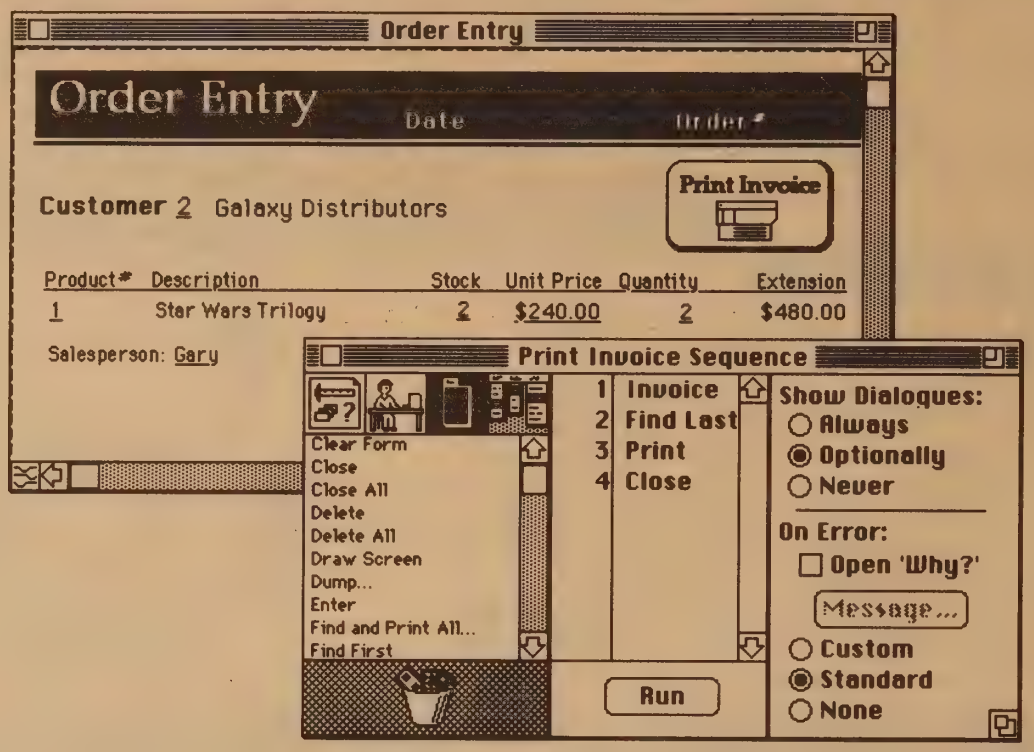
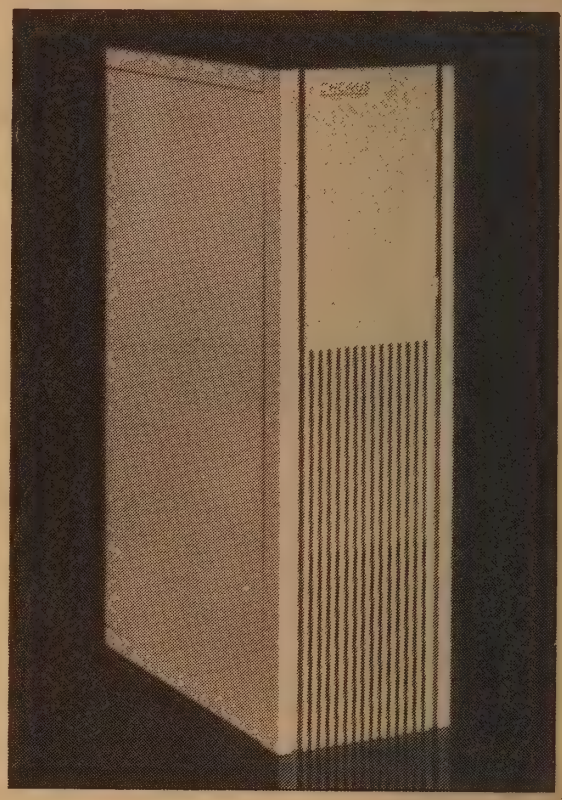


Double Helix Now More Powerful Than Ever

Odesta Corporation has released its newest upgrade to *Double Helix*, a relational database application. *Double Helix* 3.0 includes enhanced performance and query optimization; support for the Network Innovations' CL/1 connectivity platform; extensions to the *Double Helix* user interface to include *HyperCard*-style features; and new application development tools which simplify the creation of complex applications. *Double Helix* is the first and only database management system for the Macintosh to combine the flexibility of a relational system with a visual, iconic programming environment that allows users to easily and quickly generate solutions. ($595) Odesta Corporation, 4084 Commercial Ave., Northbrook, IL 60062. (312)498-5615.



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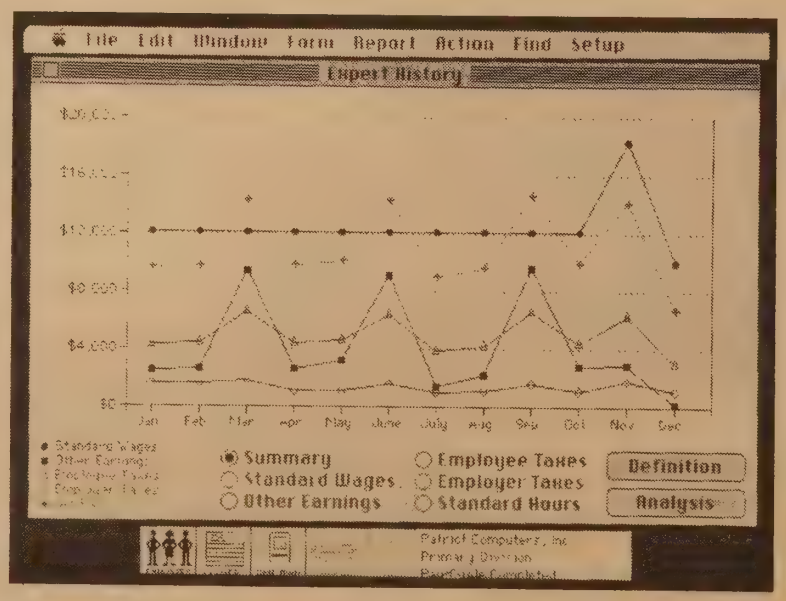
Featuring state-of-the-art technologies including parallel processing and reduced instruction set computing (RISC), Chorus is a 'compute server' that vastly accelerates selected business, graphics, and scientific applications in networks of Apple Macintosh and PC-compatible computers. Much microcomputer software has developed to the point that calculations in many off-the-shelf applications can take minutes or even hours. Among these applications are financial modeling, in producing accurate forecasts and scenario optimizations; graphics, in rendering three-dimensional objects realistically; and scientific and engineering simulations. Until recently, existing parallel processing systems have had limited usefulness because they have required end users to program them directly in complex parallel languages. Using several advanced technologies, Human Devices has developed in Chorus an entirely new class of machine. This class, the dedicated, networked compute server, has advantages in functionality and price-performance over existing categories such as expensive UNIX-based minisupercomputers and accelerator boards. Most importantly, it offers users the opportunity to accelerate an entire network of microcomputers in targeted applications at costs comparable to the addition of a single workstation to that network. Chorus is a floor-standing unit that can contain up to 16 high-speed floating point processors (FPPS) to form a multi-user desktop computing environment with 8–32 Mflops performance. Human Devices, 100 Varick St., NYC, NY 10013. (212)925-1715.



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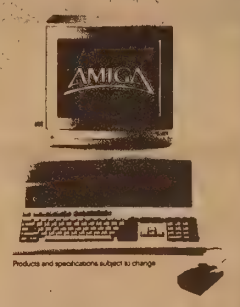

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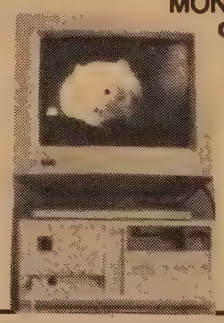

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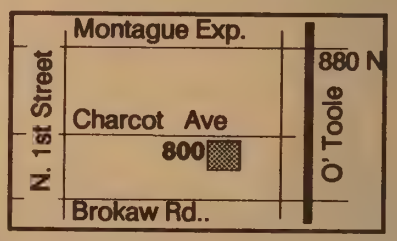

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FUJITSU 360KB/1.2MB	54/68
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RS-232	20
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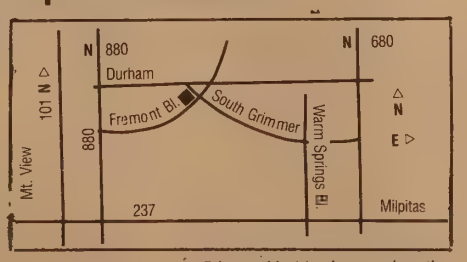

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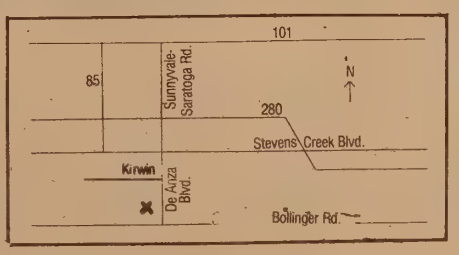

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MAC BUSINESS BUYERS GUIDE

KnowledgeSet Lowers Price On Indexing Product For HyperCard

Users who want to add sophisticated search and retrieval capabilities to their *HyperCard* stacks can now take advantage of KnowledgeSet's price reductions to purchase *HyperKRS* for $195. The package consists of two products: HyperIndexer, a full-word indexing program, and HyperKRS, a text search and retrieval engine. The products, provided as XCMDs and XFNCs, offer full-text indexing and retrieval for data that is in *HyperCard* stacks. Whereas *HyperCard* alone searches each stack sequentially, *HyperKRS* searches the entire stack instantly, significantly reducing the time needed to locate information. *HyperKRS* is used on an indexed stack and provides several features for building a search and viewing data. The program's search methods include: And, Or, But Not, Exact Order, Wildcard, Proximity, and Field Specific searching. It returns a title or "hit" list that indicates the total number of cards that meet the search request and the total number of hits within those cards. In addition, the number of hits per card is displayed so the user can gauge the relevancy of each hit. KnowledgeSet Corporation, 888 Villa St. Suite 500, Mountain View, CA 94041. (415)968-9962.

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MacEnvelope is a new software application from Insight Development that provides complete envelope processing and printing for Macintosh users. The envelope processing system provides database and mass mailing capabilities, as well as complete control over envelope appearance. By combining the capabilities of a database and print utility, *MacEnvelope* enables users to process and print envelopes from a single application. The system can maintain active address files and provide special sorting and ordering of envelope printing. When used in conjunction with Insight's *MacPrint* software or any high quality Macintosh compatible printer, *MacEnvelope* allows full control over font selection and layout. The utility supports user definable envelope sizes and formats. ($129) 2200 Powell St., Suite 500, Emeryville, CA 94608. (415)652-4115.

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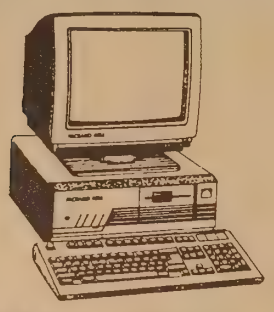

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- 1:1 Hard and Floppy Drive Controller
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• 286-16 MHz Basic System w/40 MB Seagate Hard Disk	1177	1317	1504	1589
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• 286-20 MHz Basic System w/40 MB Seagate Hard Disk	1277	1417	1604	1689
• 386-20 MHz Basic System w/40 MB Seagate Hard Disk	1717	1857	2044	2129
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Samsung Mono Amber	75
Samsung RGB 14″	215
Samsung EGA 14″	345
Samsung VGA 14″	380
Samsung Syncmaster	490
NEC Multisync 2A	520
NEC Multisync 3D	645
NEC Multisync Plus	935
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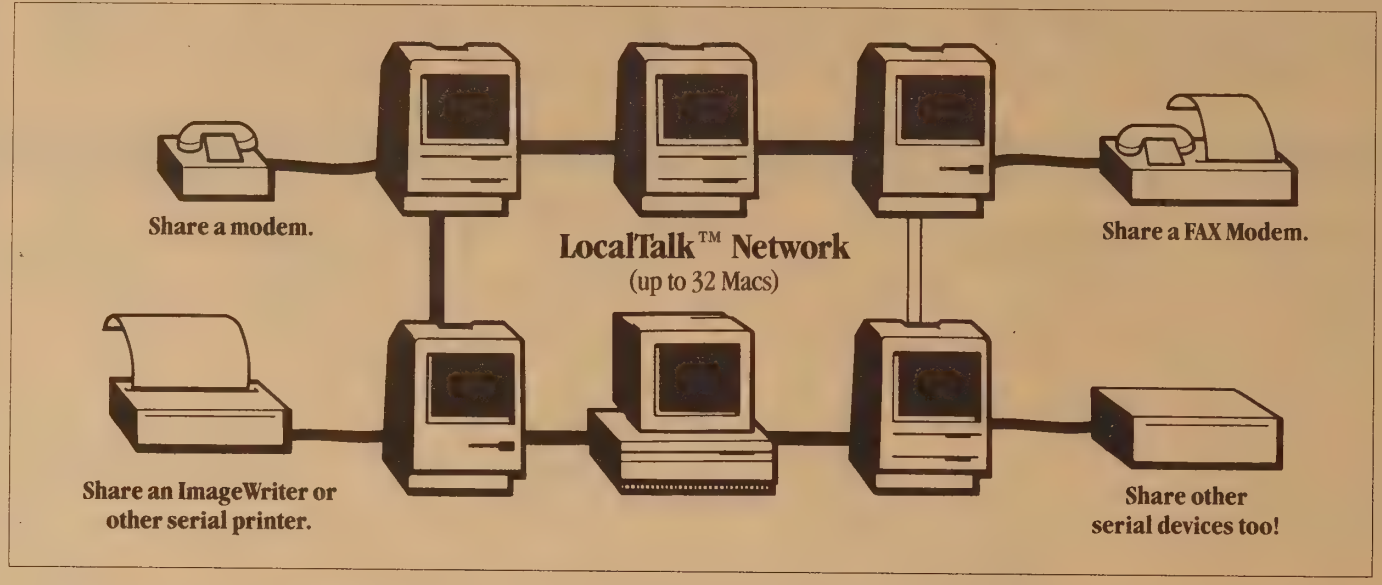
MAC LAN/MULTI-USER BUYERS GUIDE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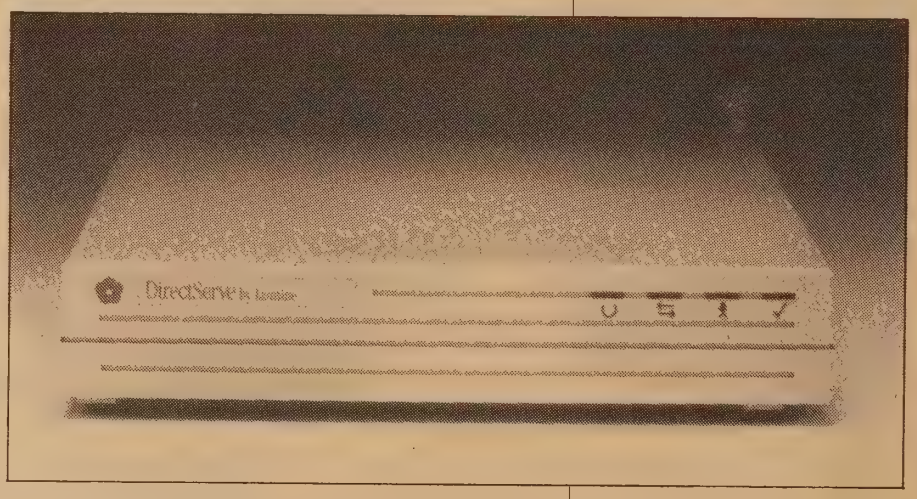
Port Server Identifies Peripherals On A Network

SilverPlatter is a utility from La Cie which identifies serial devices hooked up to any Macintosh modem port. It defines the fax, modem, printer, or any peripheral so they can be easily shared over a remote or local area network. Using SilverPlatter eliminates the need to buy additional, expensive hardware to share devices. *SilverPlatter* is part of the *La Cie Utilities* program. This complete utility also includes SilverPlatter for remote or LAN-based hard disk sharing; SilverLining for hard disk management, partitioning, diagnostics, password protection, and automatic head parking; DiskDup+ for fast floppy duplication; and *Chatterbox* for real-time on-line communication. This entire utility package, including *SilverPlatter*, retails for $149. La Cie Ltd., 16285 SW 85th #306, Tigard, OR 97224. (503)684-0143.

Jasmine Server Replaces Mac On A Network

Jasmine has started shipping its DirectServe box, a low-cost alternative to using the Macintosh as a dedicated AppleShare file server. The DirectServe is 100 percent AppleShare/AFP 2.0 compatible, and can maintain a network of up to 255 users on LocalTalk or twisted-pair cabling. This machine provides the performance of a IIcx at less than the price of a Mac Plus with AppleShare software. The server's price performance advantage is achieved through a design which couples the speed of a specially designed file system and a one megabyte RAM cache (expandable to eight megabytes) with the capabilities of a Motorola 68010 microprocessor. DirectServe's proprietary software enables the network manager to assign users, passwords, and privileges, and maintain the network from any node. No additional software is needed. As an introductory offer, Jasmine is offering the DirectServe bundled with its high-end DirectDrives at lower prices. The DirectServe 130 Mb bundle is priced at $2499, and the DirectDrive 180 bundle will be priced at $2799. ($1795) Charlie Cheng, Jasmine Technologies, 1740 Army St., San Francisco, CA 94124. (415)282-1111.



Timbuktu/ Remote

Timbuktu/Remote is a new screen-sharing application that allows Macintosh users to view and operate each others' computers over dial-up lines and other forms of remote data communication links. Through *Timbuktu/Remote* a user can observe or control another computer, and operate that computer as if it were his/her own. Files can be exchanged between the two computers, and a "chat window" allows the users to exchange messages. Since the program works as a desk accessory, it can be opened and operated without interrupting the user's work. *Timbuktu/Remote*'s capabilities are particularly appealing to user support personnel who wish to support users from remote sites. It is also ideal for network management, remote collaboration, and remote order entry, among many other applications. ($295) Farallon Computing, Inc., 2201 Dwight Way, Berkeley, CA 94704. (415)849-2331.

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386/25 CACHE

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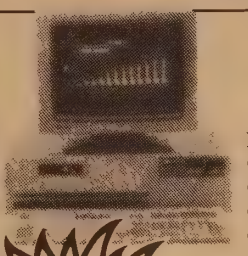

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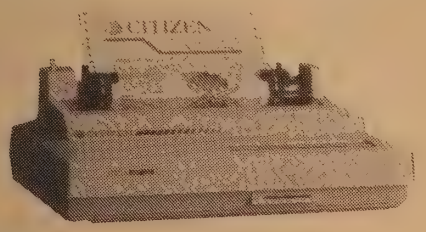

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- 150W 110/220 VAC P/S
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- Full One Year Warranty

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w/20 MB Seagate HD $645
Color System ..... ADD $160
EGA System ..... ADD $330

80286-10 SYSTEM

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- HD/Floppy Disk Controller
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- 8 Fully IBM Compatible Slots
- Hi-Resolution Amber Monitor
- 200/220W 110/220 VAC P/S
- Enhanced Keyboard w/LED's
- Runs All MS-DOS, PC-DOS, Lotus, dBase III, AutoCAD, Wordstar, Flight Simulator, Etc.
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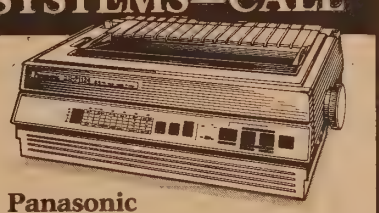

Citizen

120D 120cps $145	MSP45 240cps 399
180D 180cps 169	MSP50 250cps 319
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Star

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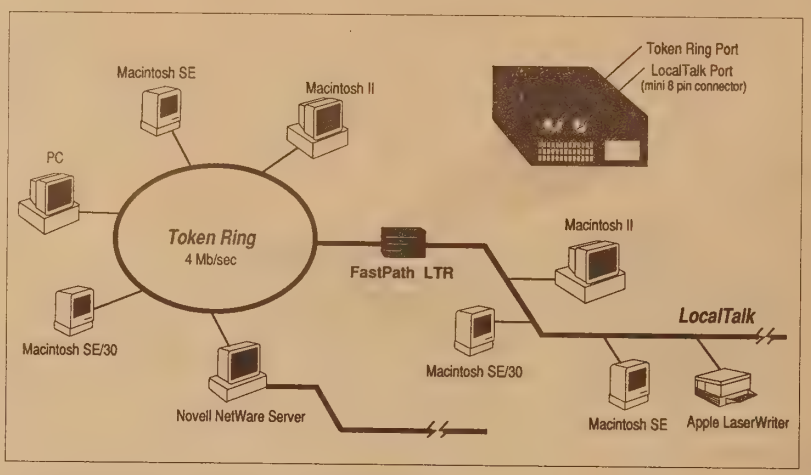
MAC LAN/MULTI-USER BUYERS GUIDE

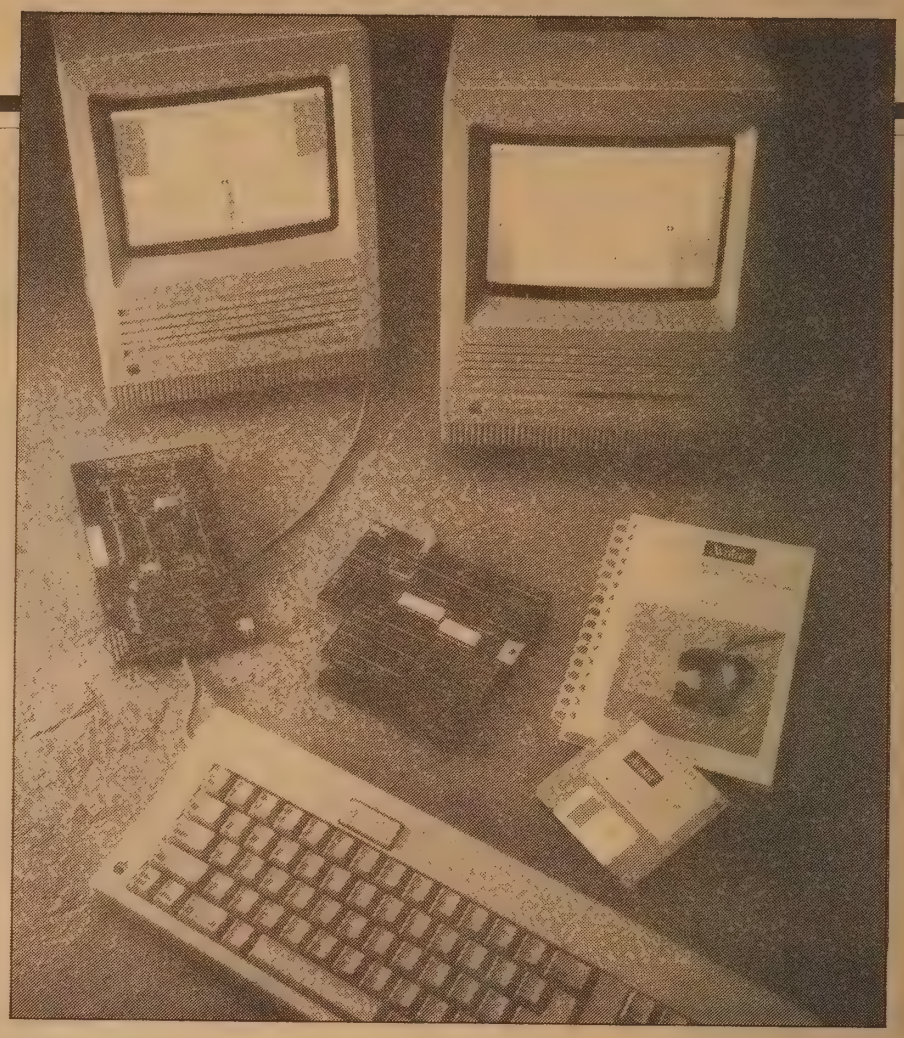
Avatar Ships SE/30-To-Mainframe Connectivity Package

MacMainFrame SE/30 is an internal card and software communications product that provides direct connection of a Macintosh SE/30 to an IBM 3270 mainframe. MacMainFrame SE/30 allows full IBM 3278/3279 terminal emulation and file transfer under IBM's CICS, TSO, and CMS operating environments. MacMainFrame SE/30 supports the range of traditional Macintosh functions while truly emulating the IBM 3270 environment. Both Macintosh and IBM 3270 users will be comfortable using MacMainFrame SE/30. It features keyboard mapping, pull-down menus, copy and paste support, and other user-definable characteristics allowing mainframe information to be easily accessed and manipulated into local applications. MacMainFrame provides MultiFinder support that enables background file transfer capabilities. Versions of MacMainFrame are also available for Macintosh Plus, Ke, SE, and II family computers. ($995) Avatar Corporation, 65 South St., Hokpinton, MA 01748. (508)435-3000.



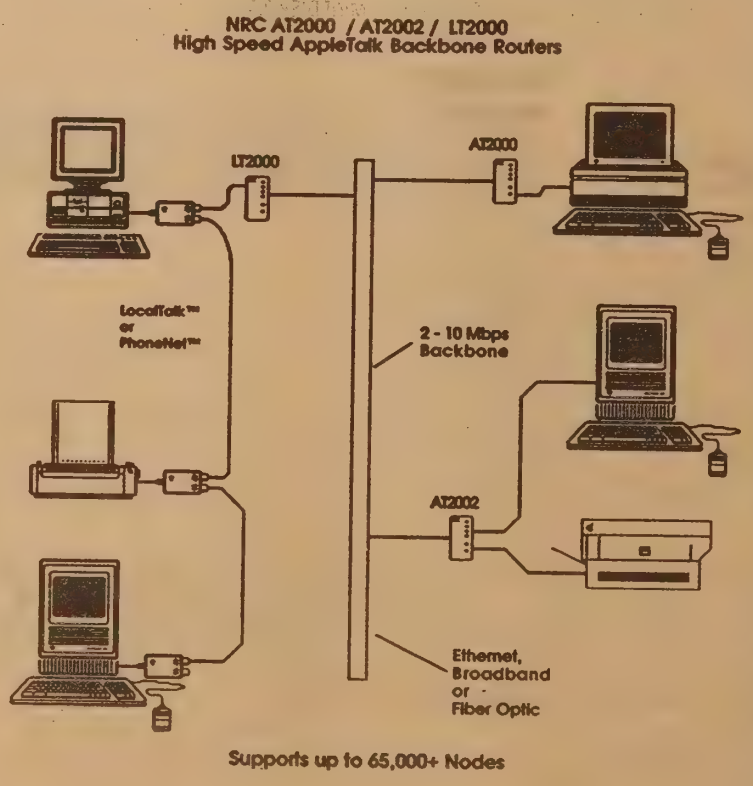
Excelan Gateway Connects AppleTalk Workgroups

Excelan's FastPath LTR is a communications gateway comprising software and hardware that links AppleTalk workgroups with networks based on the token ring topology. It supports TCP/IP and AppleTalk Phase 2 communications protocols as well as the Simple Network Management Protocol (SNMP). It can also serve as a bridge between AppleTalk networks over token-ring. Performance features include a 68000 CPU running at 10 MHz, 64 K EPROM, and 256 K RAM (expandable to 512 K). The LocalTalk side uses the Zilog 8530 chip set running at 3.6864 MHz, while the token ring side uses the Texas Instruments TMS 380 chip running at 10 MHz. The FastPath LTR, in addition to serving as an efficient connection between LocalTalk and token ring environments, also functions as an enabling technology to promote Apple-to-IBM connectivity. By providing a standard development platform, the FastPath LTR allows software publishers to write distributed applications for heterogeneous environments, including AppleTalk Phase 2. ($3495) Excelan, 2180 Fortune Drive, San Jose, CA 95131. (408)473-2300.



High-speed AppleTalk Routers For Broadband, Ethernet, And Fiber-optic Networks

Network Resources Corp. has announced the NRC Series 2000 family of high-speed AppleTalk compatible routers for broadband, Ethernet, and fiber-optic networks. The products permit large, geographically dispersed networks of Apple Macintosh computers and peripherals to be built using existing backbone networks and software. The products include the AT2000 series for connecting one AppleTalk device to the backbone network, the AT2002 series for connecting up to two AppleTalk devices, and the LT2000 series to attach a number of devices on a LocalTalk or PhoneNET local area network to the backbone. These products are aimed at major corporations and institutions that have or are adding more Macintoshes and need to network them together. The Series 2000 products are true routers, giving them significant performance advantages over products based on bridge technology. A disadvantage of bridge technology is that it slows down the system because every message travels across the entire network, regardless of its destination. Routers filter traffic so that messages addressed within a LAN do not propagate and cause delays in other parts of the network. ($999–1295) Network Resources Corporation, 2450 Autnmmnvale Drive, San Jose, CA 95131. (408)263-8100.



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- 220 WATT POWER SUPPLY
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DTC 7280 MFM 1:1 interleave 119
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Adaptec 2372B RLL 1:1 189
Adaptec 2322B ESDI 239
Adaptec 2322B-8 ESDI 1:1 295

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Adaptec 1542A SCSI Adapter 315
Seagate ST-02 SCSI Host Adapter 69
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AT Case w/ Reset & Turbor Button 59
150W for XT 35
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Vertical Case + 220w P.S. 219
Mini Vertical Case + 200W P.S. 129

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K156 44
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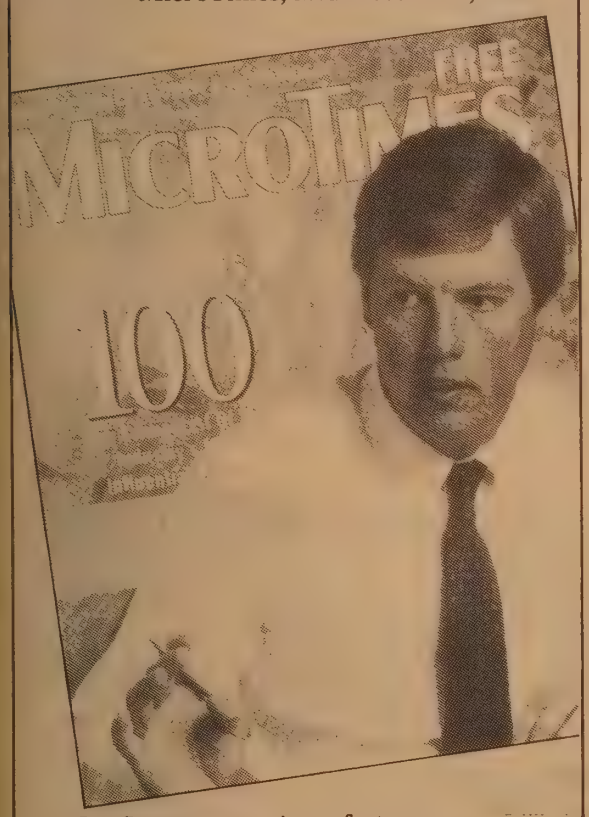
"We have a saying around here: 'Goals only limit you.' What Sun really wants to be is respected, successful, highly ethical, a fun place to work. I think a by-product of that is growth, profits, and all the rest of it."

-Scott Mc Nealy,
President, Chairman and CEO,
Sun Microsystems.
MicroTimes, Mid-December, 1988



Our January 1990 issue features our annual MicroTimes 100 list of industry leaders, those who have shaped the course of the computer industry over the course of the last year. Read about who did what, what worked and what didn't, and a few predictions about what the future holds for high-tech.

In our cover story, Intel chairman Gordon Moore discusses microprocessor technology—386, 486, RISC and beyond.

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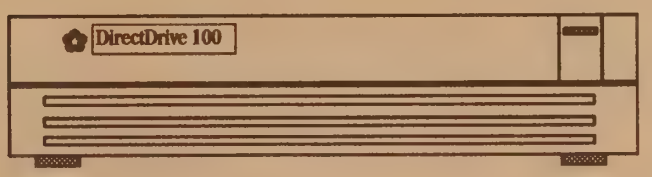

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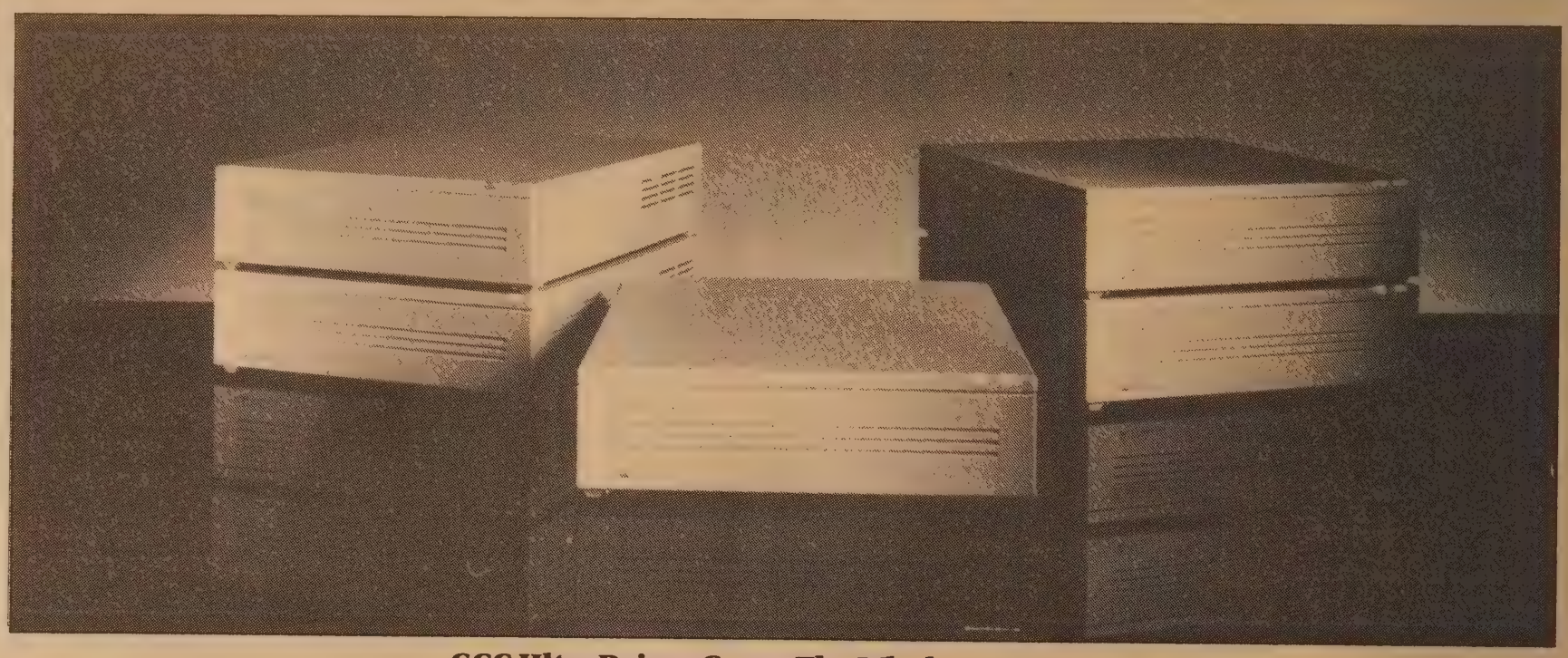
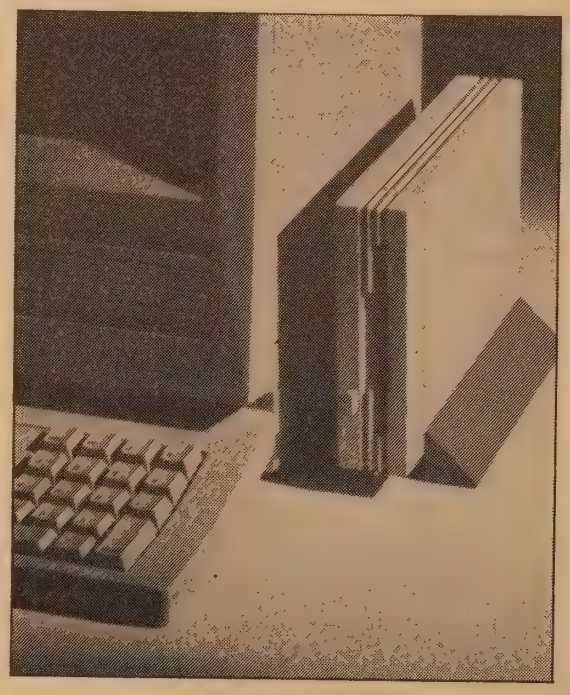
MAC STORAGE BUYERS GUIDE



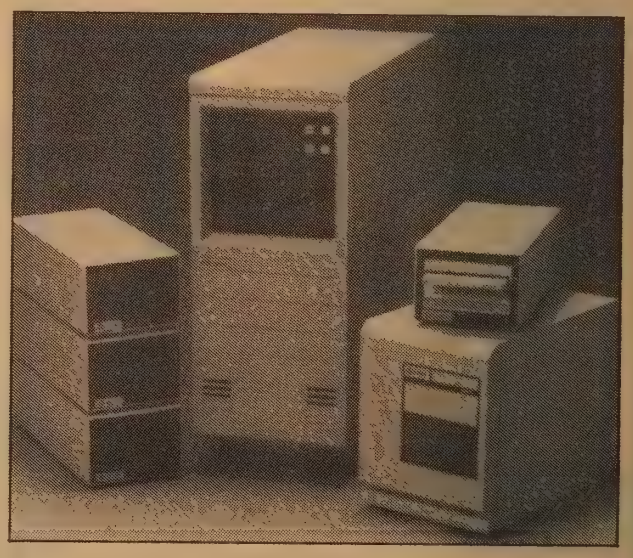
GCC UltraDrives Cover The Whole Spectrum

The UltraDrive line spans the entire range of sizes from 20 Mb to 155 Mb, and is available in internal and external models. The external UltraDrives are designed with a zero-footprint to fit directly underneath the Macintosh Plus, SE or Mac SE/30. The versatility of the UltraDrive is enhanced by components that snap into place for easy removal and replacement when the unit needs servicing. An S class of the same drives is available for those who require the utmost in speed and reliability. Access times are as low as 12 ms for these drives. The UltraDrive series of hard drives from GCC Technologies comes with *UltraWare* software featuring DiskManager, GCC Partitions, and QuickSpool. In addition, GCC has bundled SUM, the popular disk utilities package licensed from Symantec Corporation. ($549–1799) GCC Technologies, 580 Winter St., Waltham, MA 02154. (617)890-0880.



Fujitsu Puts Out Floppy Drive Under Its Own Name

Fujitsu has introduced an 800 K floppy drive for the Mac under its own name. The Fujitsu America 800 K External Disk Drive sells for $265, approximately 40 percent less than Apple's 800 K disk drive, and comes with a 12-month warranty. With this drive, Mac users can select from three placement options, allowing for optimization of available workspace. Using the Fujitsu America-supplied stand, the external drive can be mounted either vertically or horizontally, or it can be placed freestanding alongside the computer. And Fujitsu also offers the choice of a beige enclosure for the Macintosh Plus and older machines, or a platinum case for the newer Macintoshes. Fujitsu America, Inc., 3055 Orchard Drive, San Jose, CA 95134-2017. (408)432-1300.



Jasmine Furnishes High-capacity Tape And Disk Subsystems

Under a strategic alliance with RACET Computes, Jasmine is marketing a full line of high-capacity disk and tape subsystems. This line of products includes the DirectDrive XL series of hard disk desktop mass storage subsystems with capacities of up to 656 Mb in one enclosure, and tape backup options of 150 Mb or 2.3 Gb; the DirectDrive XL series of free-standing mass storage subsystems with capacities between 600 Mb and 1.427 Gb in one enclosure, and tape backup options of 150 Mb or 2.3 Gb; the DirectTape XL series of 150 Mb and 2.3 Gb stand-alone tape backup products; and the 600 Mb DirectOptical erasable optical drive system. Price ranges for the products are: $13,995 to $34,495 for the DirectDrive XL desktop subsystems; $18,495 to $43,795 for the DirectDrive XL free-standing subsystems; $1895 to $5995 for the DirectTape XL tape backup products; and $4995 for the DirectOptical erasable optical drives. RACET Computes provides a full line of high-performance disk drive subsystems, controllers, and systems software. Audrey Leeds or Matthew McIntosh, Jasmine Technologies, 1740 Army St., San Francisco, CA 94124.(415)282-1111.]

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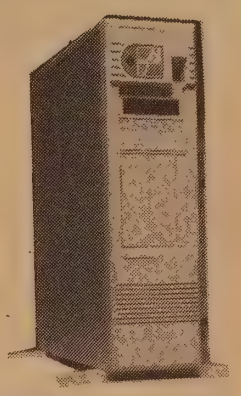

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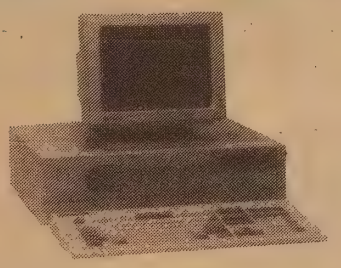

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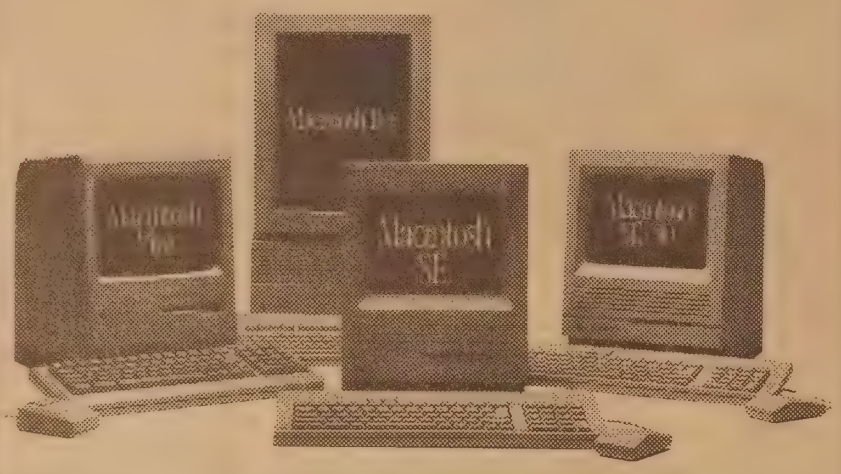

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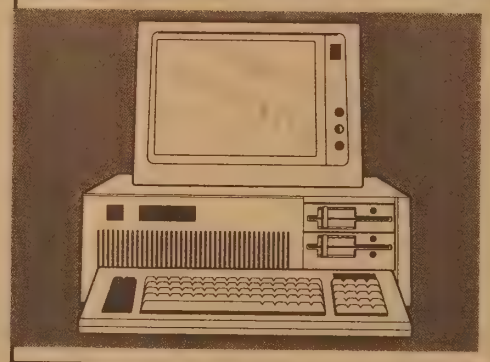

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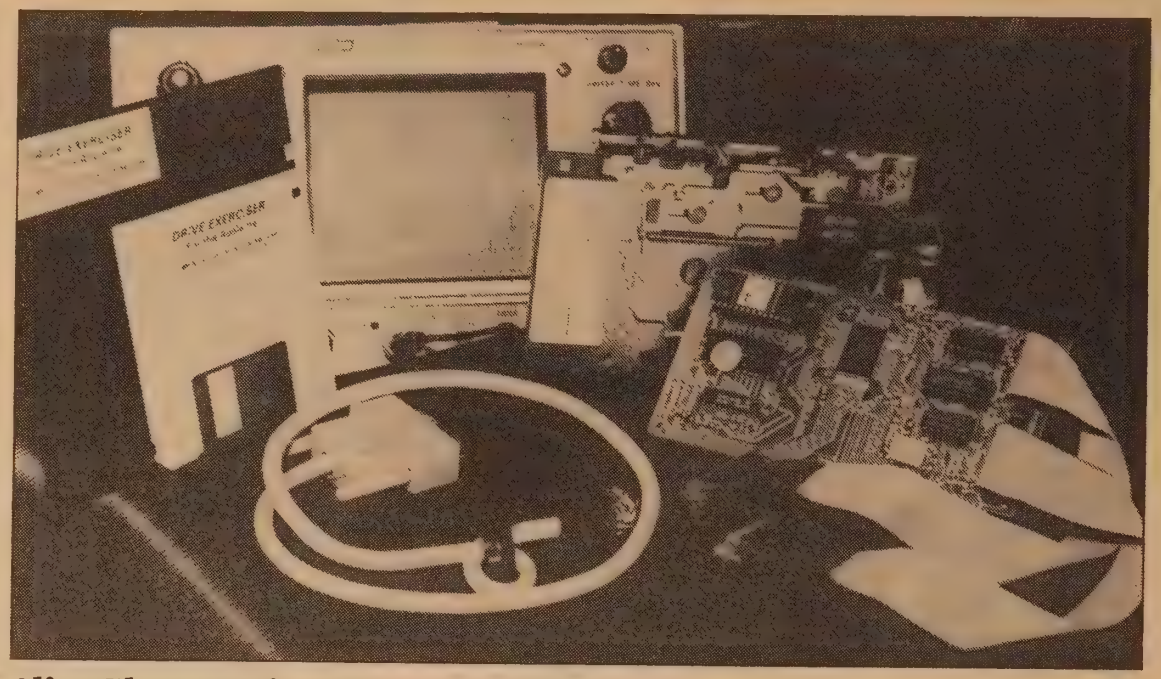

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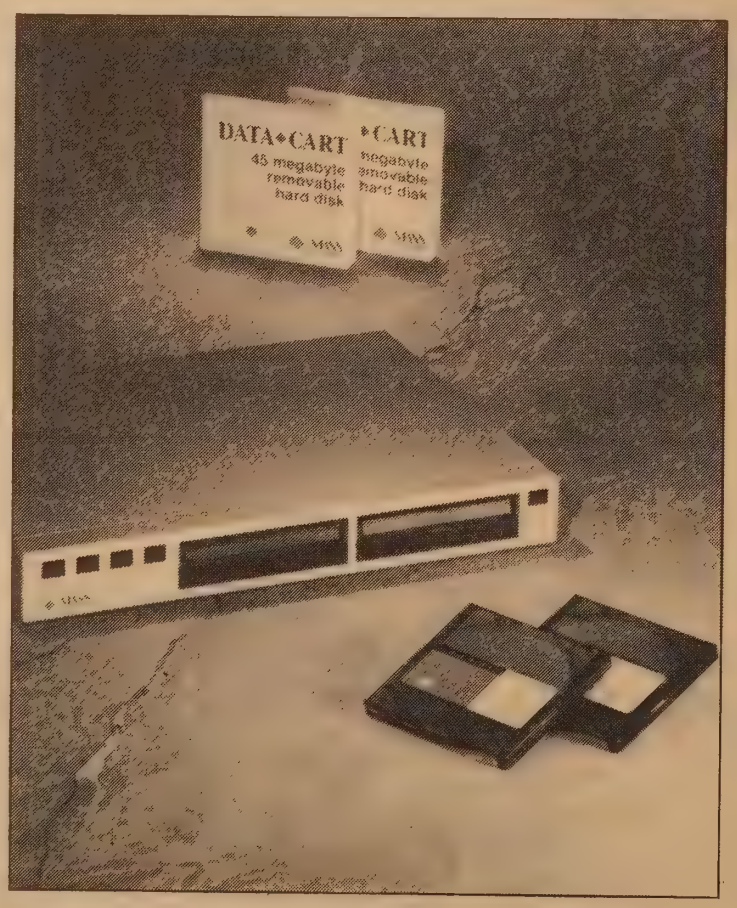
With Drive Exerciser, technicians can repair and align Macintosh 31/2-inch internal and external disk drives that they previously could not interface and control. Drive Exerciser is special hardware and software that allows a technician to align both the 400 K and 800 K 31/2-inch disk drives, as well as the Apple 51/4-inch drives using the Apple IIe. With the easy-to-use hardware and software, technicians have complete control over stepping the heads to see azimuth, radial, track 0, etc. using a 31/2-inch Dysan Analog Alignment Diskette as they would aligning a standard IEEE bussed drive. Also, technicians can read and write 01s and FFs to any given track while checking head amplitude, R/W write protect, motor speed, and eject circuitry. ($269) American Educational Services, 7611 Allman Dr., Annandale, VA 22003. (703)256-5315.

La Cie Releases Fast 142 Mb Hard Drive

The Cirrus 142 is a hard drive with a seek time of 15 ms, a data transfer rate of 1.25 Mb/sec, and an interleave of 1:1. The drive has two SCSI ports to permit daisy chaining of drives, and can be used with any Mac 512 K, Plus, SE, or Mac II with one or more SCSI ports. As with every other drive sold by La Cie, the Cirrus 142 is bundled with *La Cie Utilities* to optimize drive performance. This software consists of SilverServer, for remote or LAN-based hard disk sharing; SilverLining, for hard disk management, partitioning, diagnostics, password protection, and automatic head parking; SilverPlatter, for peripheral device sharing on a network; DiskDup+, for fast floppy duplication; and Chatterbox, for real-time, on-line communication. The Cirrus 142 also comes with an 18-inch SCSI cable, power cord, and complimentary carrying case. ($1299) Joel Kamerman, La Cie, 16285 SW 85th #306, Tigard, OR 97224. (503)684-0143.



DataPak II Provides Removable Media For Mac II

The DataPak II line of removable hard drive systems for the Macintosh II and IIx is the latest entry in Mass Microsystems' line of storage subsystems. Available in three configurations, the DataPak II, the DataPak II hd, and the DataPak II *duet*, the DataPak II line is ergonomically designed to match the footprint of the Macintosh II. The entire DataPak II product line centers around a 45 Mb removable hard drive system and a power control center with four individually switched outlets, surge protection, and a master switch. Users can organize data by archiving it to the DataPak 45 Mb cartridges. The DataPak II also offers an upgrade path to install a fixed hard drive of 40, 80, or 120 Mb. The DataPak II hd is available with a 40, 80, or 120 Mb hard drive already installed. It gives the file server user the ability to have secured files on the removable cartridge, thereby restricting access to this information. The *duet* model offers twin, side-by-side removable 45 Mb cartridge drives. By backing up from cartridge to cartridge, the DataPak II *duet* also offers an integrated back-up system. All DataPak II 45 Mb removable hard drive systems have a 25 ms average access time, 1:1 interleaving, and an 8 K buffer. Other features include an external fuse, auto-park and lock heads, and external SCSI switches. *PadLok* volume partitioning software is also included, which offers users password protection and security from a global crash. Mass Microsystems, 550 Del Rey Ave., Sunnyvale, CA 94086. (408)522-1200.

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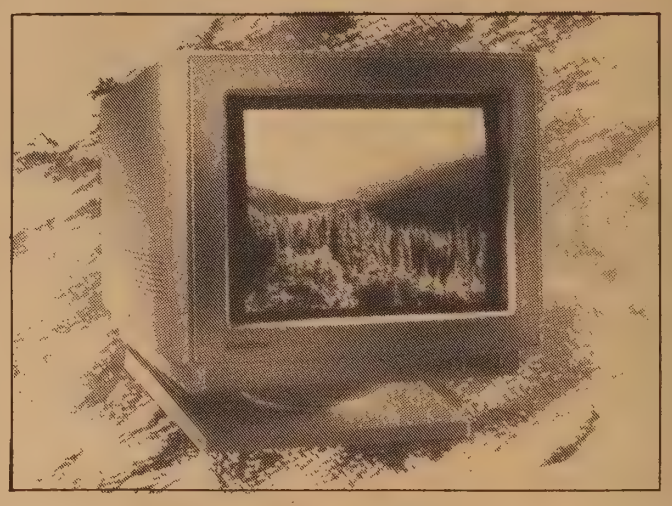

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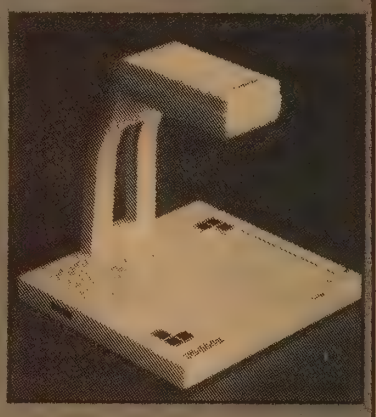

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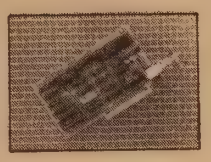

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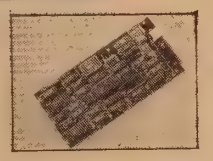

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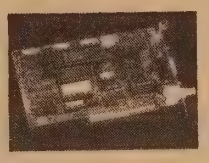

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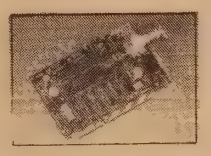

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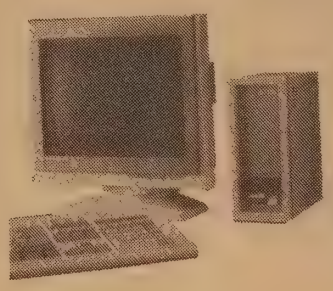

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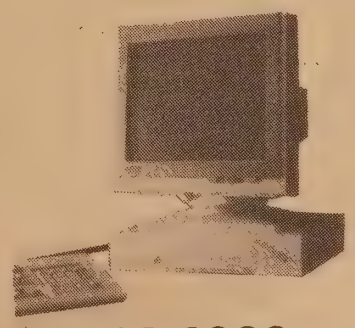

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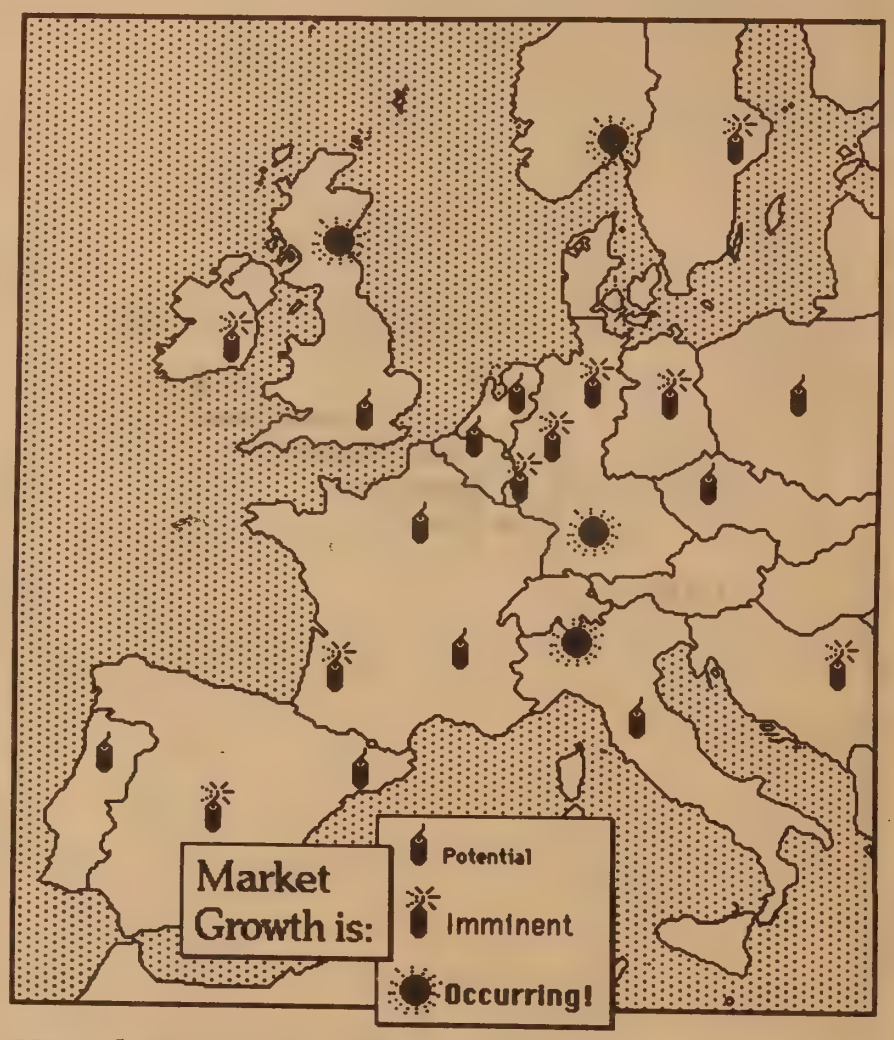

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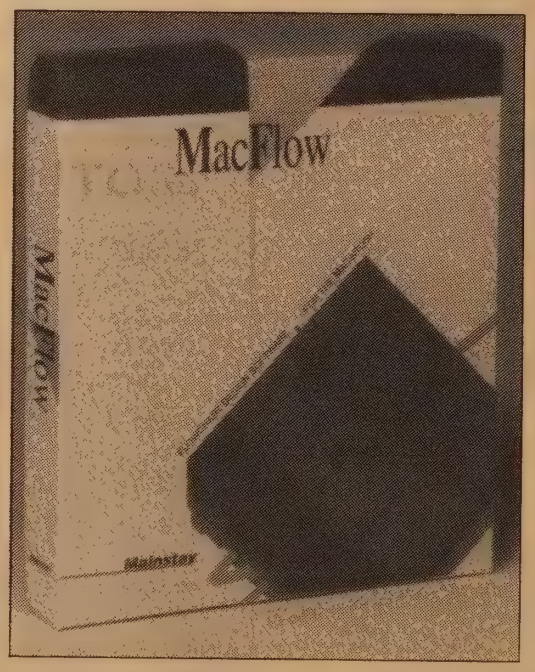

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MacFlow 3.0 allows users to draw in color any type of chart involving symbols and flow lines up to ten times faster than with traditional drawing programs or pen and pencil. A user simply drags pre-drawn symbols onto a page, connects them with lines, and types text into symbols and lines. The chart can be reorganized as desired; lines stretch and stay attached. All elements of a flow chart can selectively be assigned a color, improving the visual impact of a chart. Flowcharts can be entirely free-form and can include custom symbols. They can be printed on an ImageWriter or LaserWriter or exported to a desktop publishing or presentation program. *MacFlow* now permits flowchart symbols to be linked to documents of other Macintosh applications and to sub-launch these applications. For example, a flowchart symbol representing a quality control can even be linked to an *Excel* document which analyzes data for that event. ($245) Mainstay, 5311-B Derry Ave., Agoura Hills, CA 91301. (818)991-6540.

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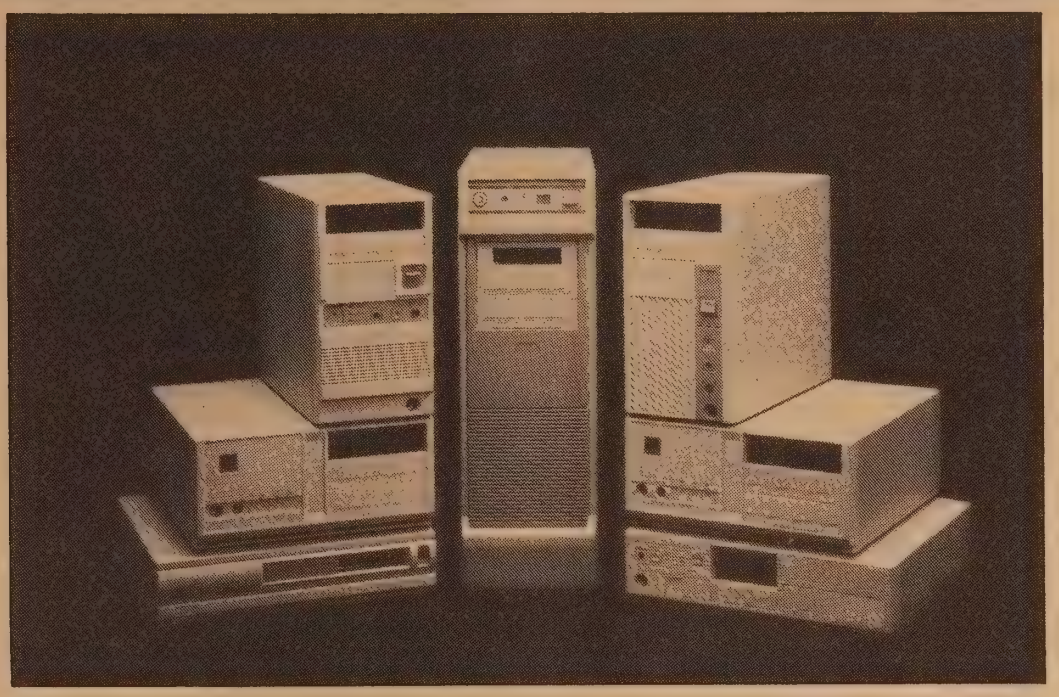

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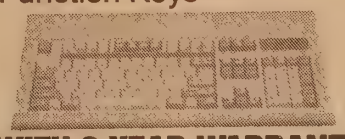

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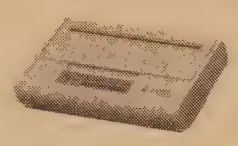

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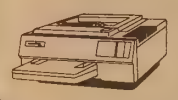

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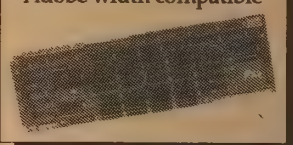

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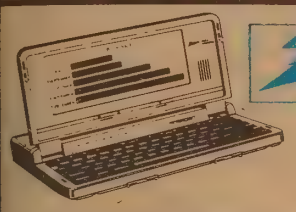

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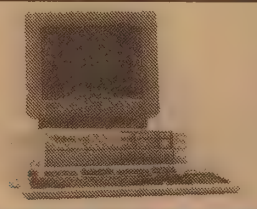

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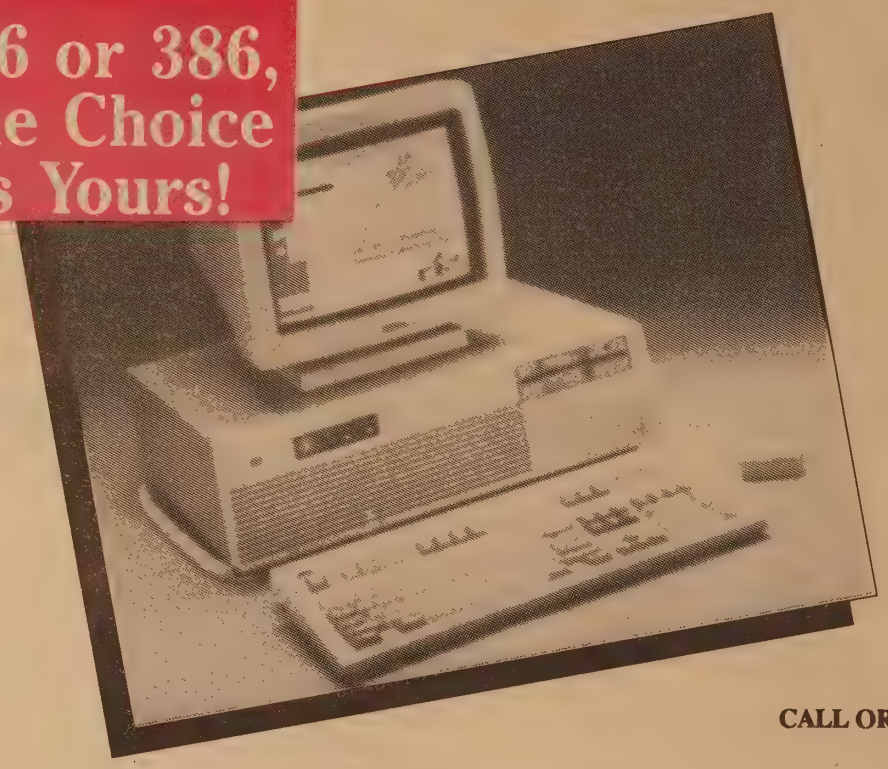

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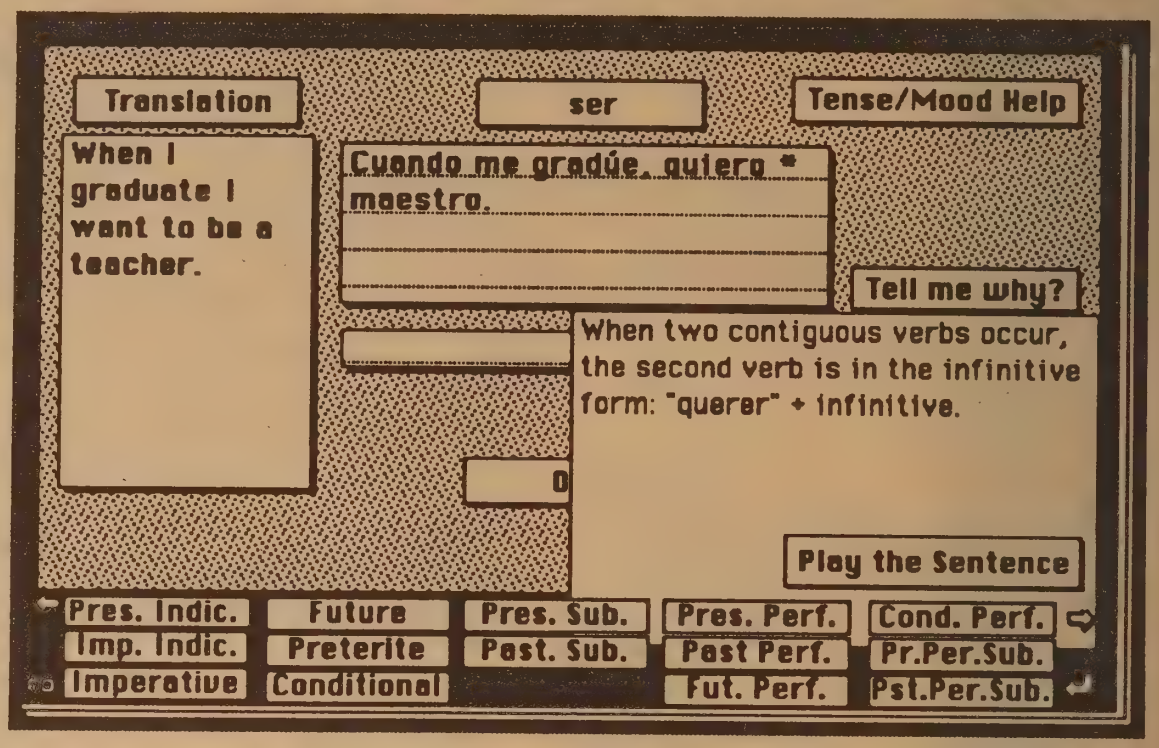
Seiko Instruments has recently released the QD-5500 Series of QuickDraw color printers for the Macintosh. The QD-5500 Series offers high resolution color output with LaserWriter quality, and optional networking capabilities, for under $7000. The Series is based on Seiko Instruments' CH-5500 color printers and the new QD-56 Macintosh interface kit. The printers are available in single-user and network print server configurations. Seiko Instruments' QuickDraw-based driver features PostScript-like outline font technology, providing users with exceptionally high quality color text in any size or orientation. Also, the QD-5500 features image size compatibility with Apple LaserWriters, allowing users to print documents to both the QD-5500 and the LaserWriter without having to repaginate or otherwise reformat the document. Seiko Instruments USA, 1130 Ringwood Court, San Jose, CA 95131. (408)943-9100.



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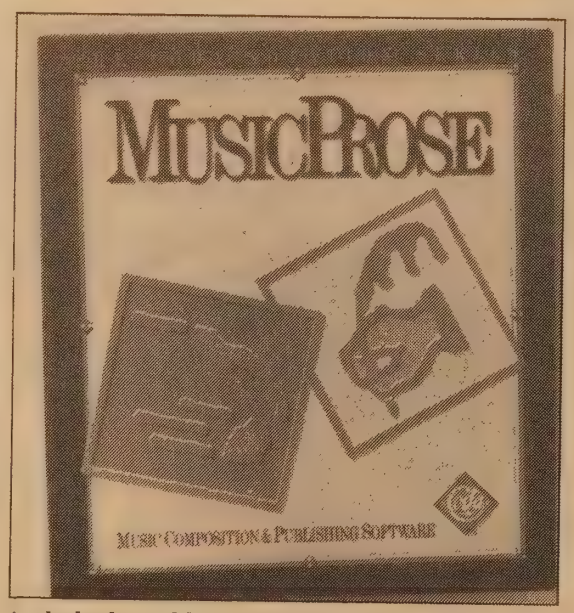
HyperGlot Software's *Spanish Verb Tutor With Sound* provides over 21 Mb of recorded sound compressed into five megabytes and distributed on seven diskettes. This piece of stackware has 200 sentences covering 20 verbs. Each sentence has a missing verb form which the user types into the stack. At any time the user can click on a button and hear a native speaker of Spanish read the sentence. In this manner the user can test his or her comprehension of spoken Spanish. The product provides instant access to translations, conjugations, tense usage help, and grammar explanations as well as the recorded sound features. Similar stacks are available for other languages from HyperGlot. ($69.95) 505 Forest Hills Blvd., Knoxville, TN 37919. 1-800-726-5087.

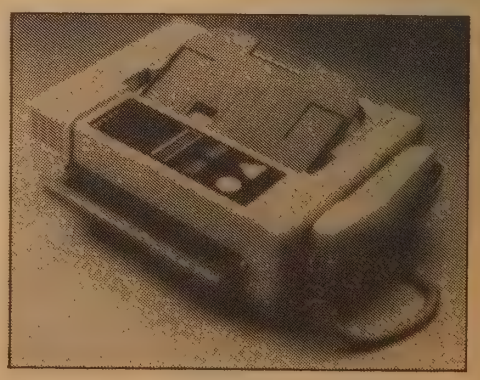


ENIGMA Technology Yields New MIDI Program

MusicProse is the second Macintosh program to be derived from Coda's ENIGMA software technology. The first ENIGMA-based product, *Finale*, was launched in September 1988 and is in use by professional musicians and composers. *MusicProse* is a less powerful version of *Finale* in some respects, as it includes the earlier program's most used features, but does not include the publishing-oriented features that have made *Finale* popular for high-end use. *MusicProse* was developed to answer the needs of the great majority of musicians who want a user-friendly and complete package that allows the most common music notation chores to be easily accomplished. *MusicProse* has three input modes: simple entry, a step-time mode that uses the computer keyboard and mouse; speedy entry, also a step-time mode, but one which allows entry via a combination of computer keyboard and/or MIDI instrument; and HyperScribe, which allows real-time transcription of music into notation via MIDI. ($249) Coda Music Software, 1401 E. 79th St., Bloomington, MN 55425-1126. (612)854-1288.

Tefax System Combines Five Integrated Functions

Relisys's Tefax System is a unit that combines five integrated functions: facsimile, scanner, line printer, modem, and computer interface utilizing built-in copier, scan mechanism, thermal print head, and electronics. The unit provides high-speed and high-resolution document image scanning, computer editing, printing, copying, transmission, and reception of text, half-tone images, and graphics. The Tefax acts as a scanner, allowing the user to receive documents from remote fax machines and save them on the computer disk. Documents can be merged or edited directly on the monitor screen and transmitted to a remote station or printed on an ImageWriter or LaserWriter. Used as a copier, any hard copy document original or stored document can be reproduced on the Tefax system. For paperless transmission, stored documents can be sent on command directly through the Tefax System to another standalone fax machine. For communications, a group directory of over 200 numbers can be stored, with an additional index of over 1000 individual contacts/customers, including name, address, and telephone number. In addition, the document can be set for automatic transmission to multiple destinations at programmed times. ($1495) Relisys, 320 South Milpitas Blvd., Milpitas, CA 95035. (408)945-1062.



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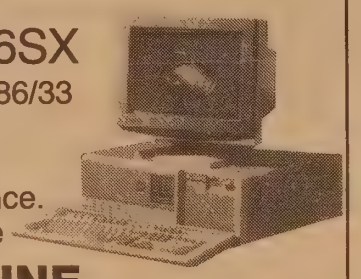

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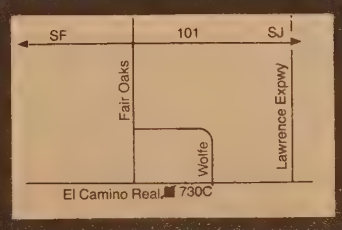

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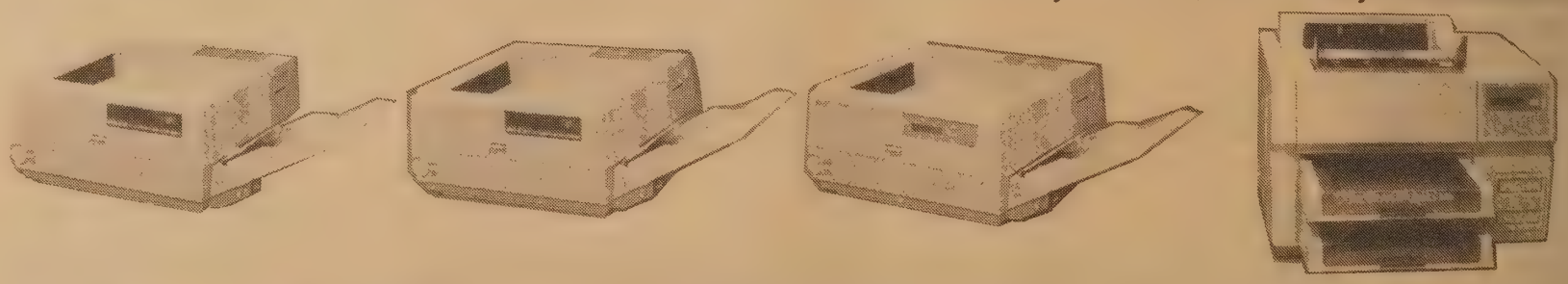

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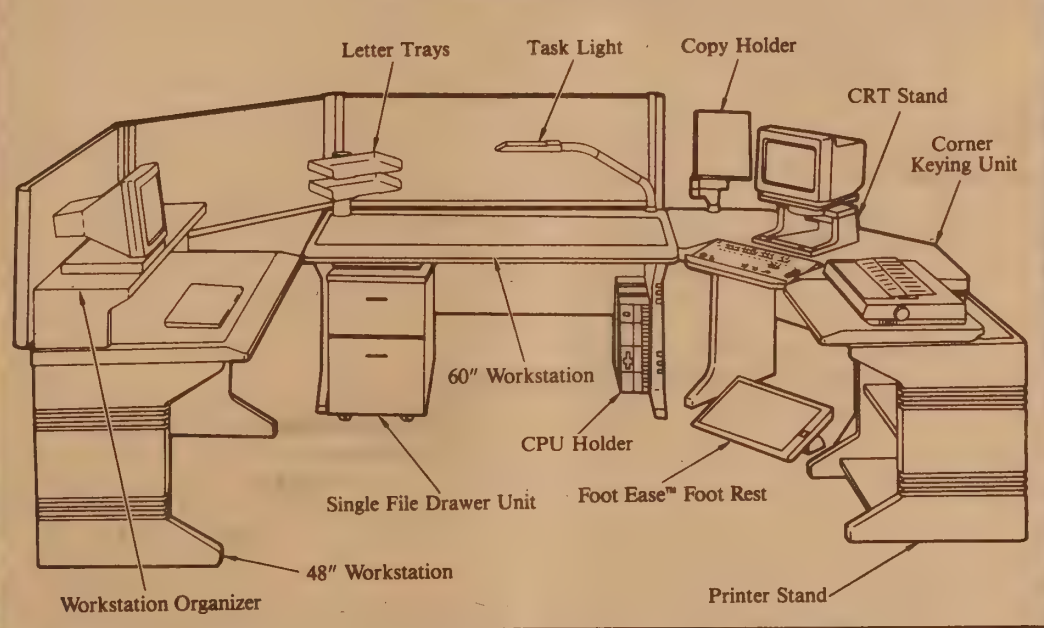

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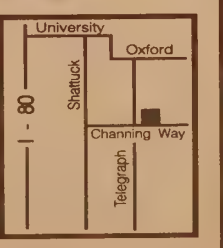

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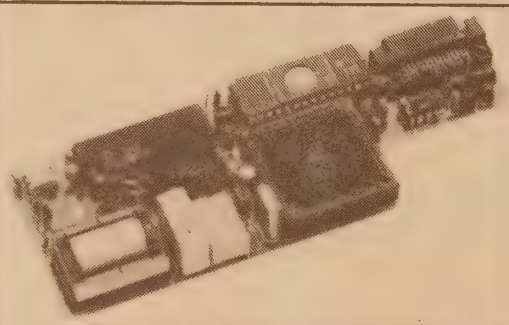

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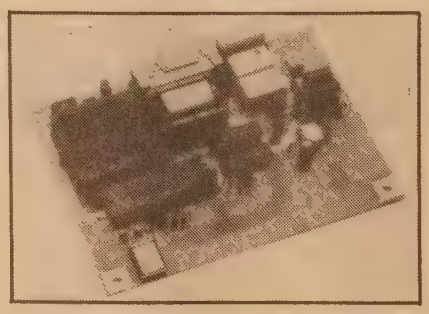

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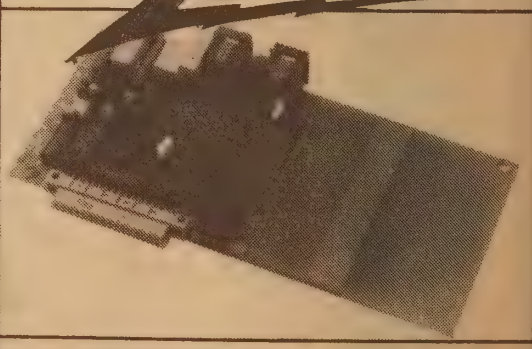

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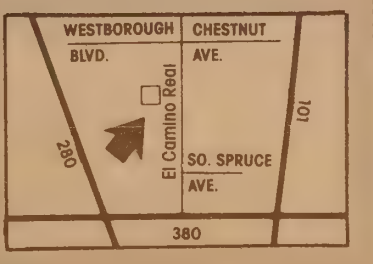

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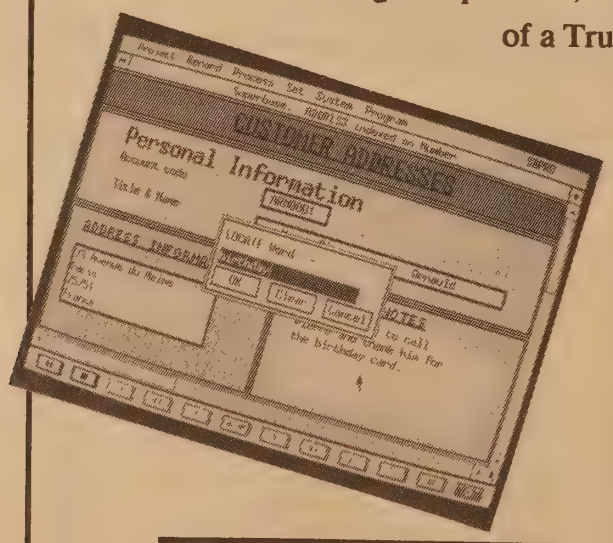

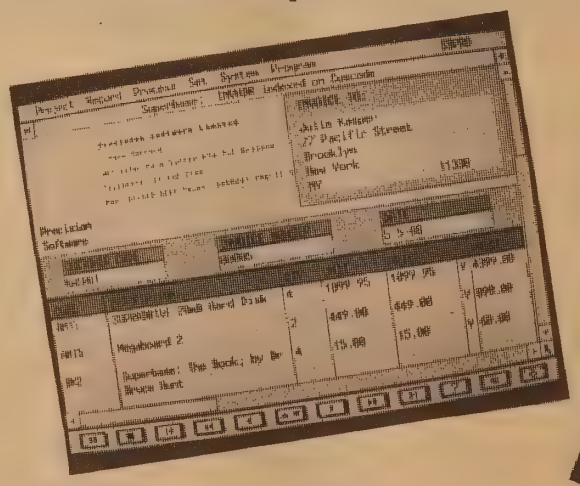

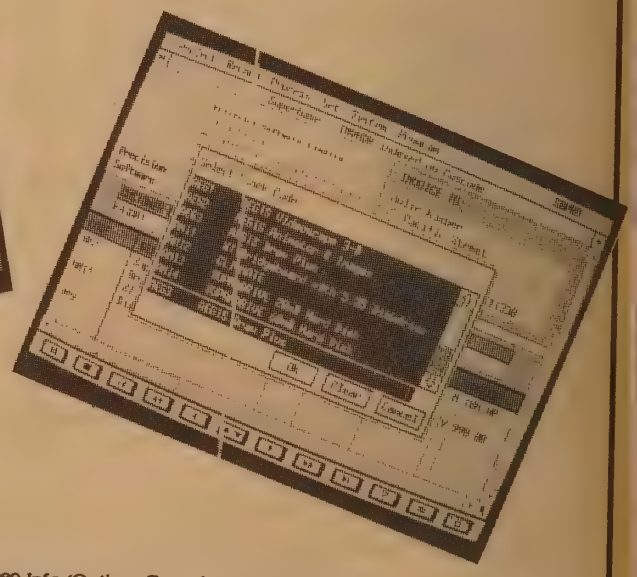

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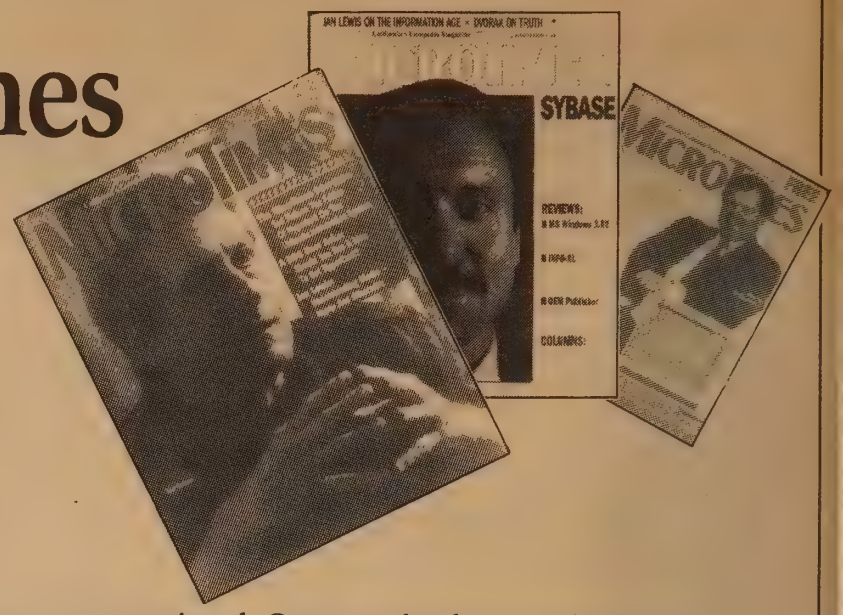

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1. PC Magazine
2. Byte
3. **MicroTimes**
4. MacUser
5. MacWorld
6. Lotus
7. Infoworld
8. Newsweek
9. Time

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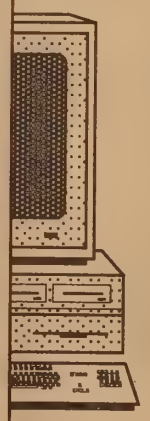

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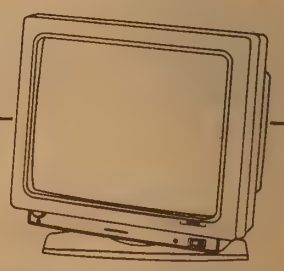

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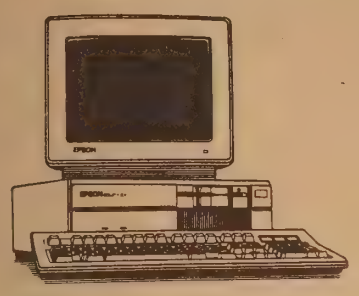

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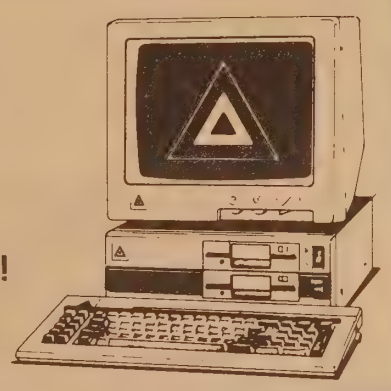

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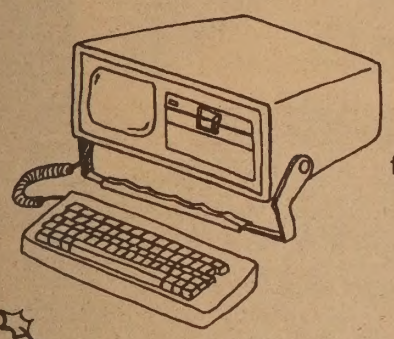

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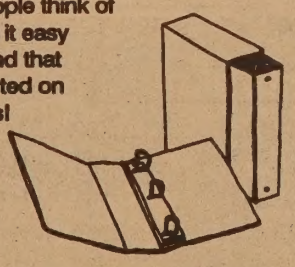

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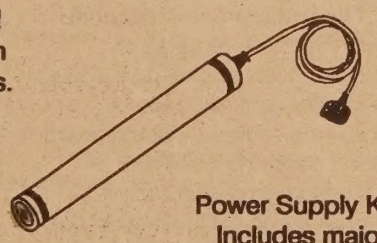

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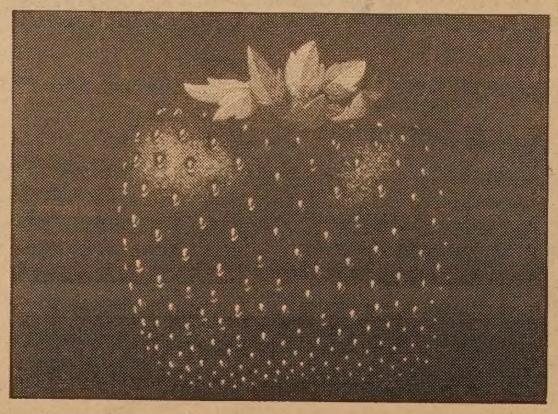
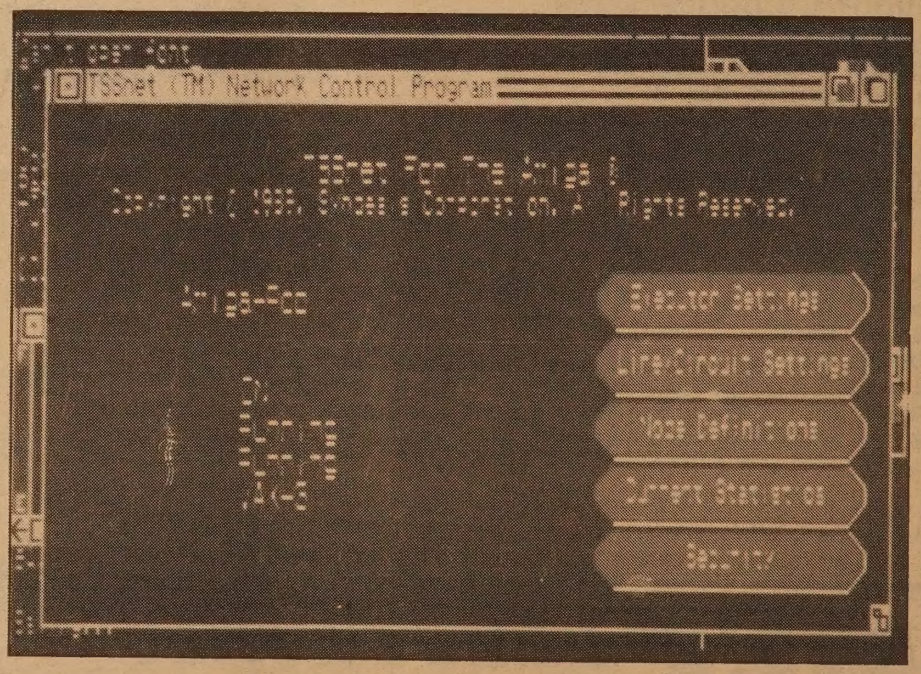


MAXX Yoke Brings More Realism To Games

In an effort to bring the game enthusiast more realism than the joystick can provide, The Maxximum Company has produced a flight control yoke with which to play flight-related games. The MAXX Yoke is a joystick-type device that looks and performs like the control yoke found in fixed-wing aircraft. It is designed for light aircraft simulators and the better known jet fighter packages for Amiga, Atari, Apple, and PC compatible machines. With the MAXX Yoke, you can thread the needle through hostile air space or attempt a difficult approach at Meigs Field. ($99.95) The Maxximum Company, 205 S. 20th St., Nampa, ID 83651. (208)465-4606.



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TSSnet provides full access to DECnet networks for the Commodore Amiga. Amigas running *TSSnet* become Phase IV end nodes in a DECnet network that can consist of over 64 thousand different computers running a wide variety of operating systems. *TSSnet* is a complete Amiga implementation of *TSSnet*, originally developed by Thursby Software Systems. *TSSnet* will provide asynchronous DECnet communications, with a Network Control Program (NCP), Network Virtual Terminal support, and a programming interface at the Amiga device level. It will provide DECnet connectivity to users of X11 for the Amiga from GfxBase, an implementation of the X Window System for the Amiga. Bob Tolly, Syndesis, N 9353 Benson Rd., Brooklyn, WI 53521. (608)455-1422.

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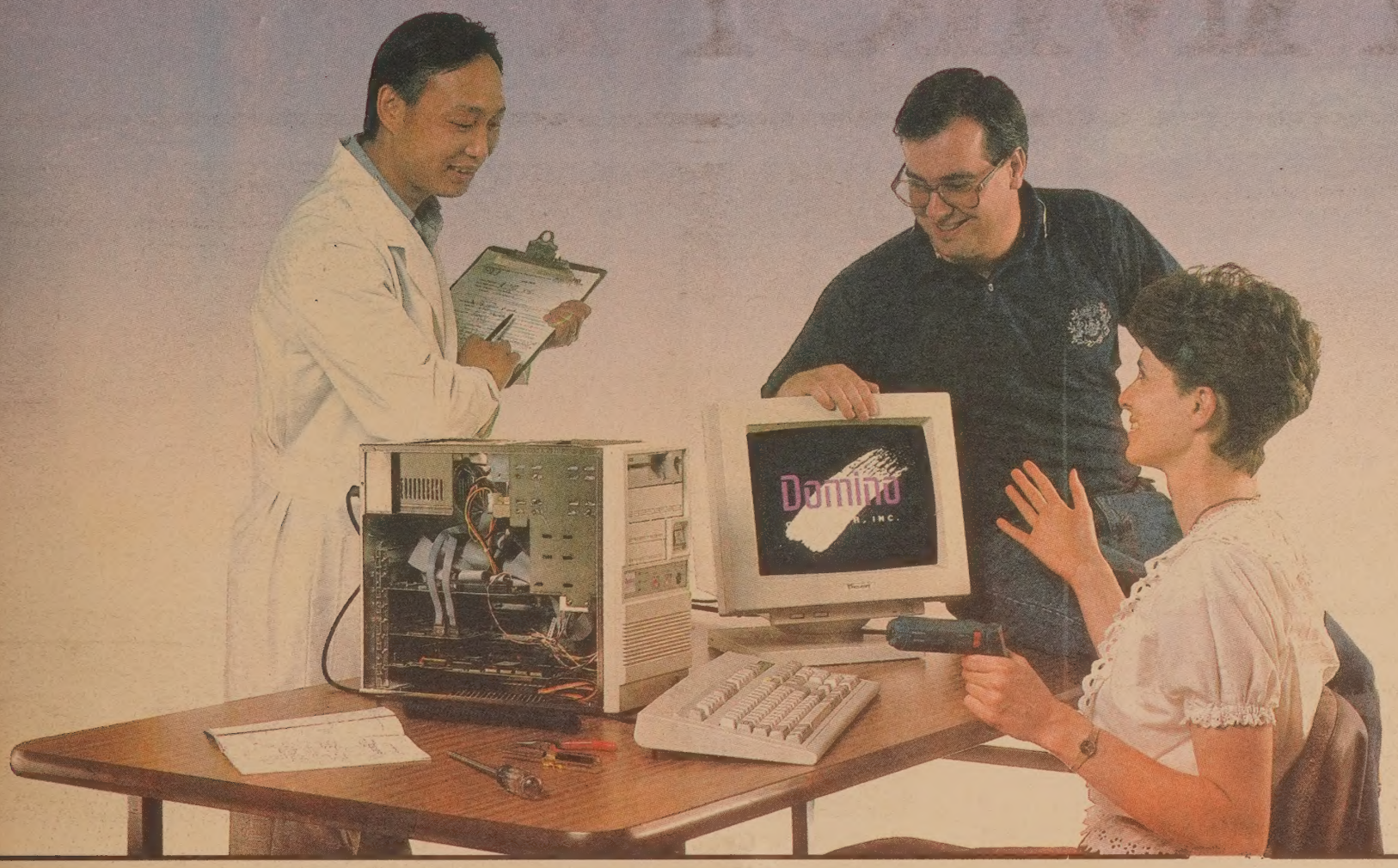

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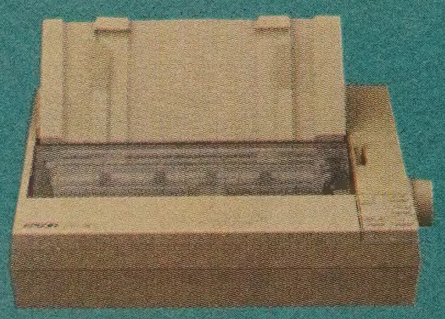

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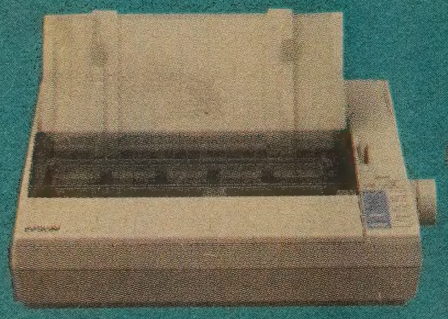

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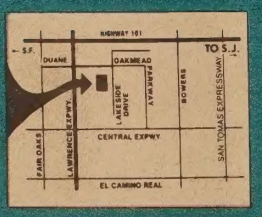

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